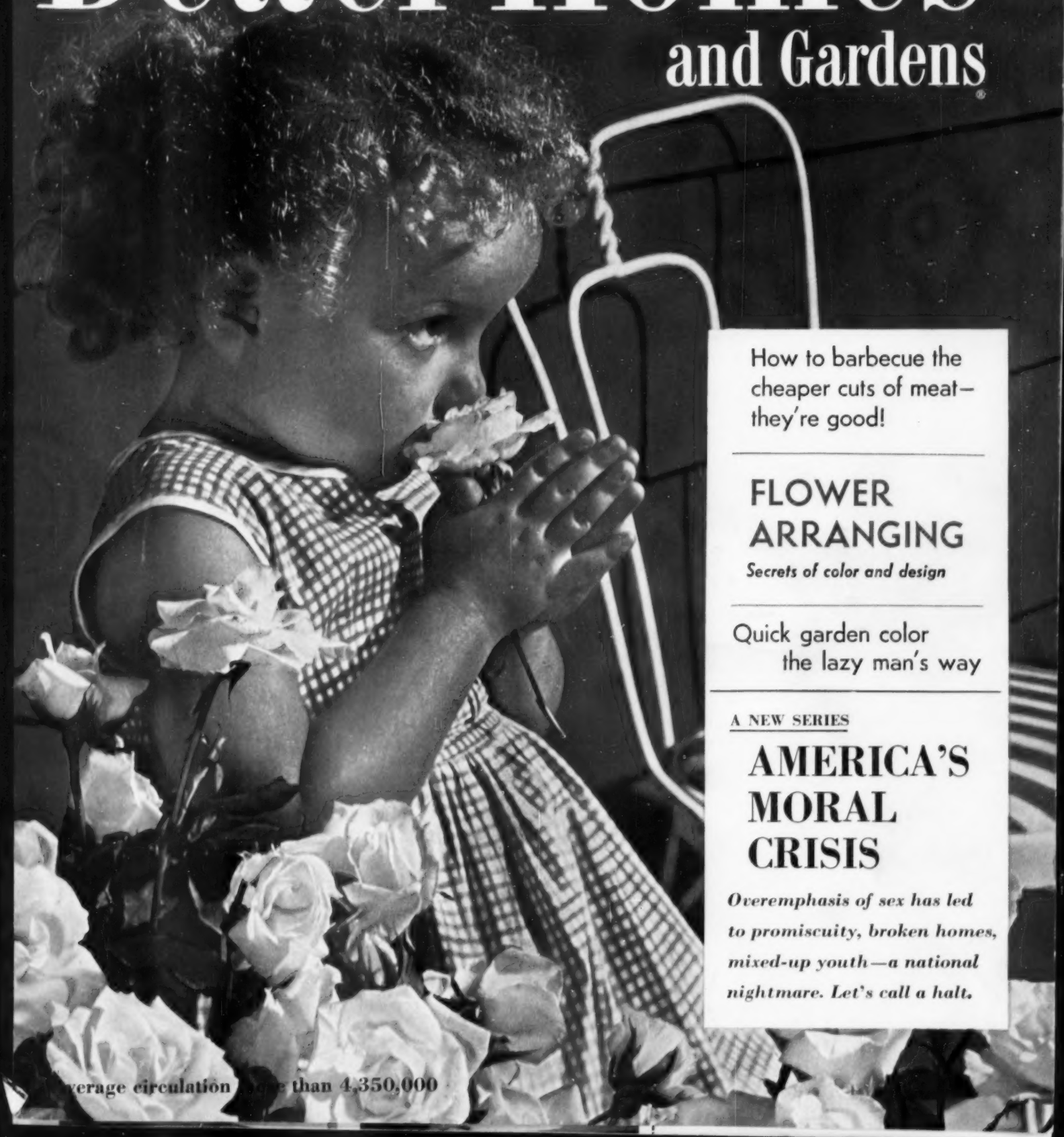
June 1957 • 35c

Better Homes and Gardens®



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Secrets of color and design

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TRADEMARK OF ANDERSEN CORPORATION

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Name .....

Address .....

City ..... Zone ..... State .....

Take the month of June, add roses and the little curly-headed Miss on our cover this month, and you've got one of the nicest combinations we know. The roses are White Bouquet, 1957 winner in the floribunda division of the All-America Rose Trials. Photograph: Lisanti, Alderman.

Better Homes and Gardens®

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Published monthly by Meredith Publishing Company, 1714 Locust Street, Meredith Building, Des Moines 3, Iowa, U. S. A. Entered as second-class matter July 8, 1922, at the post office in Des Moines, Iowa, under act of Congress, March 3, 1879. Marca Registrada en Mexico. Marca Registrada en Cuba. Trademark registered in Canada. *Printed in U.S.A.*

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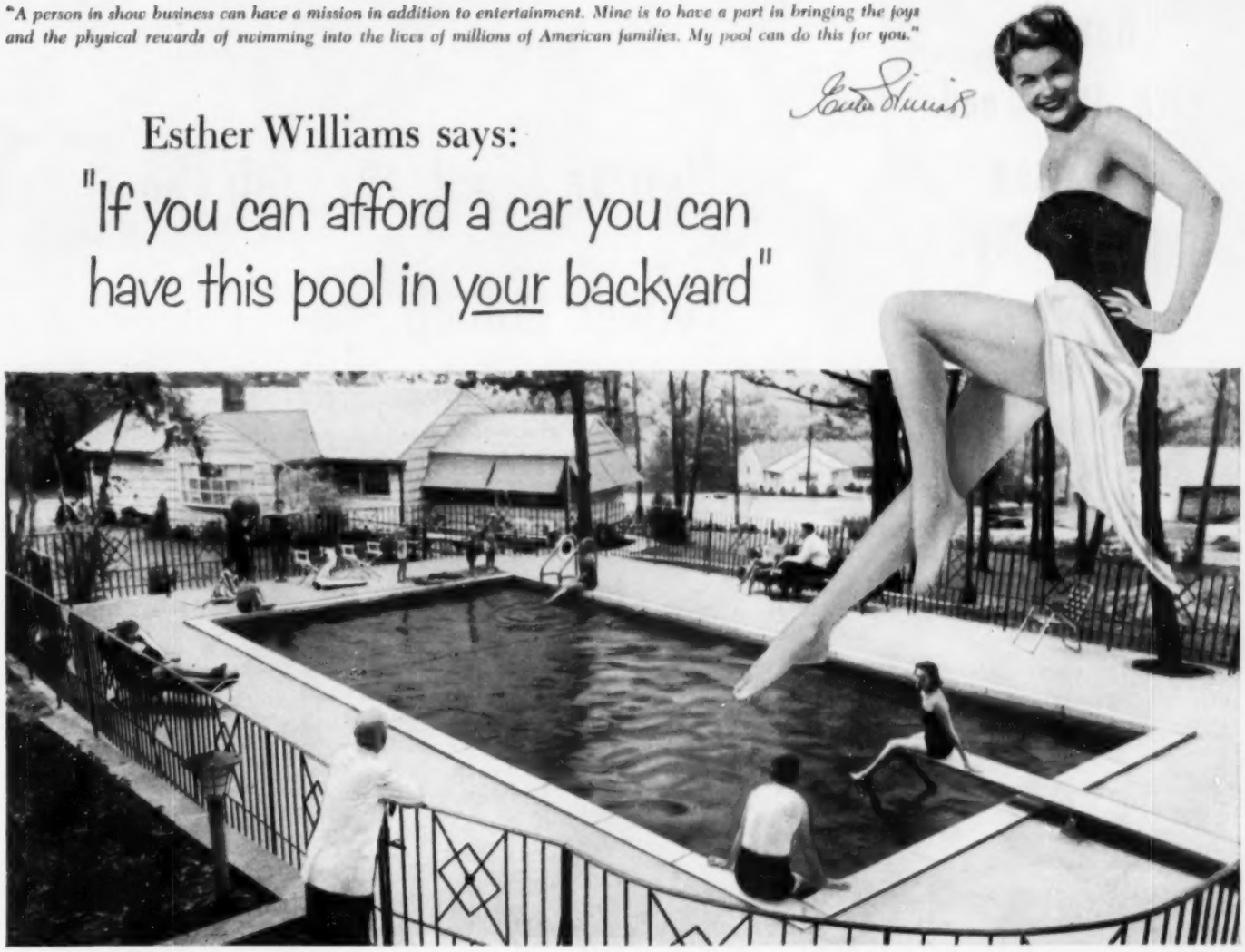
"If you can afford a car you can have this pool in your backyard"



Yes, you can have this big, luxurious, in-the-ground pool, designed by Esther Williams, internationally famous swimming star – the newest and smartest means of family fun and healthful, outdoor exercise. It means less hot, summer driving on crowded highways to club or beach. And you'll be amazed at the low cost, thanks to ingenious design and engineering. Easy financing is available in most areas.

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FOR OUTDOOR FURNITURE—Brush on two coats of Redwood REZ, a unique wood finish which is used to protect and beautify redwood itself—*or* to give *any* wood the lasting redwood look so popular today.

Not a paint
Not a stain

EASY TO APPLY—A special resin-base formula carries color deep *into* the wood, seals the pores; protects against warping and sun staining—yet leaves no heavy film to hide the natural "woody" look you want.

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See how all 13 REZ color tones look on wood. Send for *free* color card and booklet to REZ, P. O. Drawer 3, Dept. G, St. Louis Mo., or see your local REZ dealer's display of REZ colors on wood.

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the natural wood finish for exteriors and interiors, is a product of MONSANTO

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How to break through the college jam-up

Here are realistic suggestions that may help your youngster get into college despite crowded classes and rising tuition costs. To avoid future campus chaos, educators are considering:

- ★ Community Colleges
- ★ TV Universities
- ★ Study now, pay later plans
- ★ Bigger scholarship programs
- ★ Government subsidies
- ★ Borrow teachers from industry
- ★ Corporation gifts of equipment
- ★ Six-year high-school-college plan
- ★ Use of industrial laboratories for night classes

By Mort Weisinger

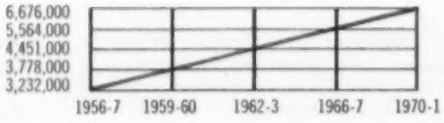
Within the next five years, thousands of parents ambitious for the future of their children will meet with crushing disappointment. The bumper crop of babies they raised during the postwar years will face a NO ROOM shingle on every college in the land. For countless teenagers, Graduation Day in June will no longer mean commencement, but a day symbolizing a dead end for their scholastic careers.

Here are some of the storm signals which are giving deans and dads nightmares:

This year, Cornell University, swamped with more than 10,000 applications, was able to accept less than 25 percent of them. Last semester, Oberlin College was able to admit only one out of every two students who applied. Since the 1940s, Yale's applicants have soared from 1,500 to 4,000, Harvard's have more than trebled. For the estimated 6,000 boys who will apply at Dartmouth this fall, there will be only 725 vacancies. Marietta College in Ohio reports that 66 percent more students have applied this year than last.

The outlook for the future is even grimmer. The New Jersey State Board of Education, for example, reports that, by 1963, one out of every three young people in New Jersey wanting to go to college will find no place. Says Dean Emery Walker, Jr., of Brown: "Our present freshman class is 635. Ten years from now we might have 10,000 applicants. That will be the real problem." And at Rutgers University, officials predict they will have to reject several thousand qualified students during the next eight years because of limited facilities.

Estimated number of students seeking admission 1956-71



It would be folly to discount these figures as "scare statistics" which apply only to our big-name colleges. A study completed recently by President Eisenhower's Committee on Education Beyond the High School predicts that by 1970, at least six million youngsters will be college bound—roughly double the present total. By that time, according to present indications, the Association of American Colleges expects our nation's 1,800 institutions of higher learning will have space only for little more than four million.

This means that more than one and a half million qualified boys and girls now in high school will have their dreams of a college education shattered. They will miss education necessary to equip them for a profession. For each youth, the loss will be catastrophic. Authorities estimate that a college education increases an individual's earning power by at least $100,000 during his productive life. To the country, the loss will be incalculable. The nation will lose the benefits of our younger generation's talents, often referred to as "discoveries unmade and services unrendered." Military experts shudder at the thought of how this waste of brain power will increase Russia's technological advantages over ours.

Another solid barrier on [*Turn to page 40*

How alert young men are starting retirement plans – for less than $20 a month!

New York Life's Whole Life policy lets a man build a *lifetime income* for his retirement years at a cost he can afford today!

Today's young men, aware of the great strides being made in medical science, know they can look forward to enjoying a longer life than their forebears did. But they know, too, that really *enjoying* those extra years will depend in large measure on the kind of financial security they are able to set up for themselves beforehand.

That's why so many far-sighted men are starting retirement plans early in life through New York Life's Whole Life policy. Even a slim budget is no barrier, because premiums are low. Yet the cash values it builds during your working years can, at retirement, pay you a *monthly income for the rest of your life!* That means cash to supplement Social Security, pension plans, savings and the like. It means cash for travel, hobbies or necessities. And during the years *before* retirement the policy's cash values offer you a constant source of funds for emergencies.

Even more important, Whole Life protects your family, if you should die before you retire. Yet, with all these benefits, the cost is small because Whole Life's $10,000 minimum face amount permits savings which are passed along to you in low premiums. For example, issued at age 30, the annual premium for $10,000 of Whole Life is only $202.40, which means setting aside only about $16.87 a month! And dividends can be used either to reduce premium payments still further or to increase cash values or income at retirement.

Ask your New York Life agent about this insurance that can make a retirement program practical for you—right now! And send a postcard to the address below for New York Life's free booklet, "How Much Life Insurance Is Enough?"

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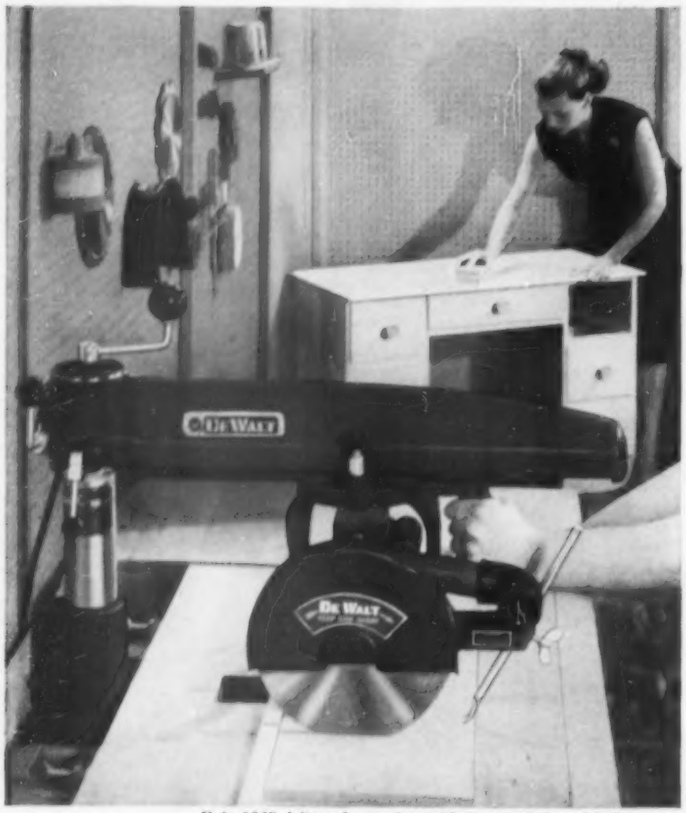

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With a versatile AMF DeWalt® Home Power Shop, you can make home repairs, build furniture, handle even major projects like a *professional!*

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● **Arm swings and locks at any position** for miter cuts—gives easier, safer *top-side cutting* that eliminates errors . . . you see your mark *and* your cut.

● **Builds into workbench!** Because entire arm *swings clear* of work area, you can cut and assemble on the same work bench! *Save valuable space* and get *extra convenience too!*

● **Powerful ¾ hp motor is U. L. Approved**—guaranteed for full year—tilts and turns to any angle. Motor carriage rolls smoothly on ball bearings in protected trackways. Simply change circular tool on direct-drive motor shaft and you have another power tool—*at no added cost!*

● **Superior safety and accuracy!** Exclusive DeWalt Safety Key Switch prevents unauthorized use. DeWalt's patented design and rugged precision construction provides both safety *and* unmatched accuracy that assures years of superior workmanship.

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JUNE

GARDEN

Central and East

Lawns: It's still not too late to give the lawn a late spring feeding. Spread a balanced plant food over the entire area, working carefully to see that no spots are missed or get a double portion. . . . Mow grass higher as hot, dry weather sets in. Take only half an inch at each cutting. This keeps heat from penetrating down to tender grass roots.

Fruits: Spray and thin fruit on trees now. Wait until after normal June drop, then thin fruits so that those which remain will have room to develop naturally—won't overburden tree.

Vegetables: Start the regular spraying rounds in the vegetable garden. Methoxychlor, malathion, and DDT will control most of the pests that are starting to multiply this month. . . . Continue to plant corn at 10-day intervals. This planting for successive crops may be continued until mid-July.

Shrubs and trees: Call a halt to feeding of shrubs and trees until late fall. Food applied now will stimulate new growth which won't have a chance to mature before freezing weather arrives. . . . Keep a constant lookout for signs of borers around bases of all your trees. Trickles of sawdust are one sure sign that borers are present. Kill them by probing holes with a stiff wire, or injecting carbon bisulphide into holes. Plug holes with putty or mud.

Annuals, perennials, and bulbs: Dig, divide, and transplant crowded nonblooming daffodils this month. . . . Don't let up your battle against garden pests. Check roses, iris, peonies, and gladiolus—keep spraying or dusting to prevent or cut down on insect damage.

South and Southeast

Lawns: Feed your lawn lightly to boost the growth which was strengthened by your first, early spring feeding. This work will carry the lawn through to fall and the final feeding you give it then.

Fruits: In the mid-South, this is a good time to feed your strawberry plants. If you use a water soluble food, one-half to a full gallon per 100 feet of row is sufficient in average soil.

Clean and oil sprayer and duster periodically to keep them in working order. Avoid running short of pesticides by jotting down needs.

Cut roses for bouquets in the late afternoon and their blooms will last longer. Keep stems short, too, so plant isn't robbed of much foliage.

REMINDERS

Vegetables: Feed the plants in the vegetable patch that are setting blossoms now. A side-dressing of a standard plant food, laid down the rows, should be watered in for best and fastest results. . . . Keep up successive planting so that your garden will produce a succession of crops. Beans and corn are two major items to plant this month.

Shrubs and trees: Make regular checks on climbing roses and other vines to see that they're staying in bounds. Tie them or cut them back if they're getting out of hand. . . . Go back over the trees you pruned last fall or even this spring. Look at the wounds to see that they have a coat of protective paint on them—paint over those you may have missed.

Annuals, perennials, and bulbs: As hot weather sets in, soak rather than sprinkle garden plants. Loosen soil around roots, too, to let water run into the earth more easily. . . . Make new gladiolus plantings in the Upper South. You'll have bloom further into the summer.

Pacific Northwest

Lawns: Water deeply when you take the hose and sprinkler out on the lawn. A light sprinkling only results in shallow roots which are easily damaged by summer sun.

Fruits: Strawberry plants are setting their fruit this month. See that they get plenty of water to help them along. Strawberries are 92-percent water—need plenty of moisture to make big, juicy fruits.

Vegetables: Sow lima beans, snap beans, corn, carrots, and beets for late season use. . . . Thin vegetables as they grow and until they reach half their fully developed size. You'll have fewer left in the garden, but they'll be bigger and more naturally developed.

Shrubs and trees: Complete pruning of spring-flowering shrubs—snip flowering heads off lilacs when they begin to fade. If you leave them on the shrub too long, you'll cut down on the number of blooms you'll get next year.

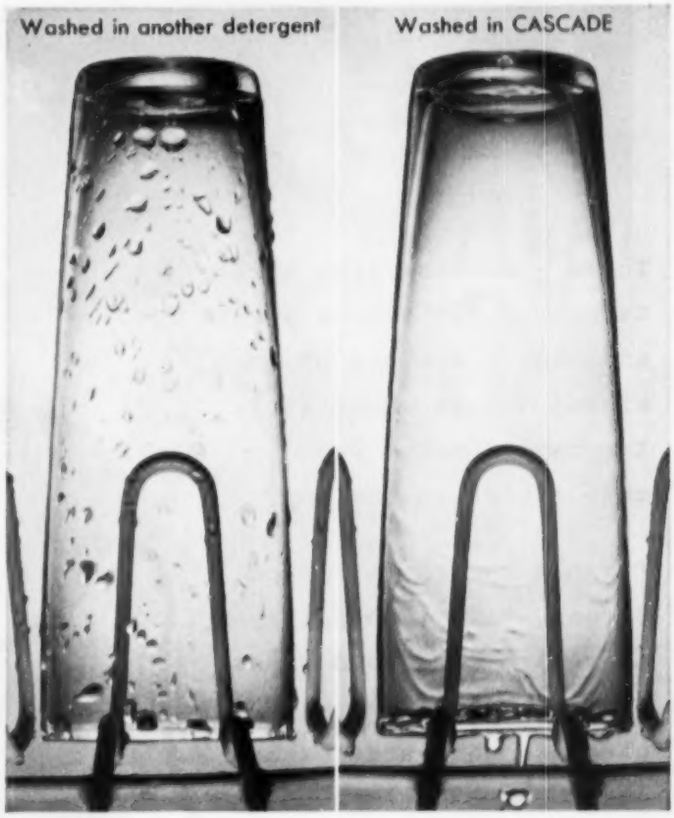
Annuals, perennials, and bulbs: Spring-flowering bulbs can be lifted late this month when their foliage dries and begins to die down. Dig them out, store them in cool, dry place—such as your basement. [*Turn to page 11*

Apply crabgrass killer, in wet or dry form, to keep the pest out of your lawn. For complete control, more than one treatment is needed.

Set house plants out in the garden to give them new life—fill in bare spots in beds. See that they're in open shade, or partly shaded area.

NEW! FOR DISHWASHER OWNERS

Cascade eliminates drops that spot!



Only Cascade has an exclusive ingredient that changes drops of water into cleansing, clear-rinsing "sheets"—stops spotting as no other detergent can!

Compare two glasses fresh from the dishwasher rinse. Water drops clinging to the glass washed in another leading detergent can dry in ugly spots. But not a drop remains to spot the Cascade-washed glass. That's the magic of Cascade's exclusive formula. It changes water drops into free-flowing "sheets." And it leaves everything so slippery-clean, rinse water slides right off. Result: no water drops, no more water spots! Cascade gets glasses clearer, silver and china cleaner than any other detergent!

What's more, Cascade is *safer* than any other detergent—actually protects gold leaf and other delicate china patterns. So switch to new Cascade. You'll love everything about it!

MADE BY PROCTER & GAMBLE

Critical flashlight test proves it! "Light up" a glass and see. Cascade-washed glasses dry spotless, *close-up clean!* Proof that Cascade eliminates drops that spot!

Helps put more smiles in the day!

There's nothing like the telephone for saving steps and time. But one of the nicest things about it is the way it helps put more smiles in the day.

Friends and families are closer--life is happier--there are more good times for everyone--when pleasant voices go back and forth by telephone.

It doesn't have to be a weighty thing. Many a time it's fun to call up just for a friendly chat.

Wouldn't you like to talk to someone right now?

Working together to bring people together
BELL TELEPHONE SYSTEM

This is Dolly Phone, the cuddly rag doll designed by Bil Baird of the famous Baird Marionettes.

June garden reminders

Begins on page 8

California

Lawns: Make the elimination of crabgrass your pet project this month. Plants are still young and relatively tender—easy prey for the powerful chemicals on the market today. Don't wait too long, however. Crabgrass gets bigger every day, goes to seed next month.

Fruits: Be certain you thin out your fruit crop as it begins to mature and fill out. Fruits that touch each other invite decay—sap the tree's strength with overabundance. General rule of thumb: Thin one apple per cluster; keep peaches a foot apart; and remove about one-third of the plum crop.

Vegetables: Don't wait another day if your warm-season vegetables aren't already in the ground—This last call for planting includes corn, climbing beans, peppers, tomatoes, eggplant and vine crops. . . . Remember that paper collars might save the plants you set out from destruction by cut worms. . . . If you're re-planting summer vegetables in the same beds where spring crops were grown, spade up the soil first, mix in a good balanced plant food. You'll be putting nutrients back in the soil—giving your summer crops a better chance to grow strong and big.

Shrubs and trees: Keep new woody plants watered throughout their first season in your garden. You'll reduce the chances of their being lost in an extended hot, dry summer. . . . Acid-loving plants such as camellias, azaleas, and rhododendrons are ready for a feeding. They're producing buds for next season now, will gain strength from plant food.

Annuals, perennials, and bulbs: Start mulching now, as the hot summer weather approaches. This is especially important in the dry, interior valleys. . . . Look forward to new flowers next season by sowing seeds of Canterburybells, foxgloves, and other biennials. . . . Continue to stake and tie plants as the season progresses and plants keep gaining height. Both perennials and annual vines fit into this category—and both may need your help. . . .Where dry weather persists, and in interior valleys where rainfall is a stranger, mulch to save plants—and the cost of water.

Texas-Southwest

Lawns: Check for weeds in the lawn that will thrive in hot weather and crowd out the more tender grass. . . . Bermuda lawns will benefit from a good feeding with a high nitrogen-content plant food. Bermuda is a heavy feeder—needs regular feeding to do its best on your lawn.

Vegetables: Sow late crops of beans, carrots, and turnips. . . . Keep adding mulch where it's needed in the vegetable garden. Cultivate weekly where you have no mulch—it will save your back because the weeds won't have time to develop strong, deep roots.

Shrubs and trees: Feed shrubs when they finish blooming. . . . Get after aphids on roses by spraying them with nicotine or malathion. If mildew sets in, dust roses with sulphur. . . . Train new canes of climbing roses by spreading them out and tying them to supports. . . . See that trees growing in lawns get an extra deep soaking. Grass roots intercept much of the water—you have to apply more if trees are to get an adequate supply.

Annuals, perennials, and bulbs: Check your houseplants carefully for signs of insects or insect damage. Spray to eliminate the pests. . . . Soak seedbeds deeply before you sow annuals for late summer bloom. Moist soil aids germination—eliminates waste of seed. . . . This is a good time to transplant crowded clumps of Siberian and tall bearded iris. Set out the new clumps in "drifts" so their color masses will blend more naturally in your garden. . . . Remember that there's plenty of hot weather still ahead. Mulch to save weeding and watering time—save on cost of mulch by using inexpensive and locally-available material.

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Is the city manager plan

YES

says James T. Welsh, City Manager, Teaneck, New Jersey

One of the major reasons so many communities have turned to the city-manager plan is that the managerial profession is now solidly established. The chance to secure a well-trained nonpolitical administrator is a powerful inducement in communities where locally elected officials, beset with mounting municipal burdens, want the help of men who know the best practices in what is an increasingly technical field.

From the beginning of the movement, there has generally been a strong improvement of the municipal services of the community adopting the plan. For one thing, the manager brings ideas beyond the horizon of the city's own tradition and experience.

In many places, devoted and thankless elective officials and department heads have followed familiar and easy ways, unaware that other professionally managed communities have developed better methods. Reduced debts and tax rates achieved by many managers don't necessarily mean that the money had previously been stolen, although that's sometimes the case. They usually have indicated that easy-going, obsolete and roundabout methods are the rule in nonprofessionally run communities.

Bringing in a man with training and experience gives the people what they want—elected representation, appointive administration.

The council-manager plan does not limit any of the elective offices to those who are willing to accept the hazards of political life required in competing for salaried, time-consuming positions which involve serious interruption or sacrifice of their private careers for brief terms. On the contrary, it widens the field of popular choice by making elective officers a board of directors. They have important duties but they take only a few hours a week, usually at weekly meetings.

Thus, men and women of modest means can serve as representatives of their communities without serious sacrifice. The high percentage (71 percent) of out-of-town managers appointed by councils of this kind shows that they are able to rise above local petty politics.

The plan ceases to limit the administrative chief officers such as mayors and commissioners to amateurs of merely local experience. It opens the choice to the new profession of city managers of demonstrated technical competence like such superintendents under elective school boards.

The council-manager form of government is frequently attacked as an undemocratic form under which dictatorial authority is concentrated in the manager. According to this argument, the council loses its control over city affairs and becomes a rubber-stamp legislature.

In cities where the plan is new, this misunderstanding is likely to be widespread, with even council members prone to regard the manager as the personification of all that is good, or bad, in their new government. In cities where the plan has been long established, the average citizen is likely to regard the council as "the government."

Julian Orr, City Manager of Portland, Maine, says that proponents of the council-manager plan are themselves often to blame for this misconception, explaining: "They have failed [*Turn to page 16*

the answer?

As told to Ray Josephs

NO *says William T. Evjue, publisher, The Capital-Times, Madison, Wisconsin*

Have you ever planned some activity or project, imagined it through to perfection, then gone from paper to practice—only to discover that ideas which sound great in theory don't always work out in action?

That's one of the major reasons I am so strongly opposed to the city-manager system. Again and again I've listened to the persuasive arguments from its advocates:

"If your community needs better government, try our neatly prepackaged, all-purpose solution."

But take it from one who has lived through the plan in operation—the practicalities don't equal the suppositions.

The basis of the manager plan is that *you*, the voters, elect a city council to set policy and that *they* hire a manager to administer the decisions. What you usually get, I'm afraid, is a distant executive, far removed from and neither responsive nor responsible to you and me, the average citizens.

I think I can best explain how it works by the very personal experience of our community—largest city to have tried and then abandoned the plan in the last 10 years.

As a civic booster, I bow to no one in calling Madison, Wisconsin, a wonderful town. Yet I've never been blind to its shortcomings. Like most Madisonites, I'm naturally anxious to see it run better.

As the state capital, and home of the progressive University of Wisconsin, our population of 100,000 has always had standards far above many communities—or so we like to believe. That, I'll agree, is as it should be. High standards improve any town. Simultaneously, however, they result in a more critical demand for superior performance from all public officials.

For 90 years we had an elected mayor and council. Of course, there were problems and dissatisfactions. That's inevitable in any government. In 1946, manager-plan proponents campaigned that not only would their scheme overcome all our difficulties but give us an era of progress. The task wasn't easy. We had neither rascals to throw out nor political scandals to provide ammunition. The city-manager plan won.

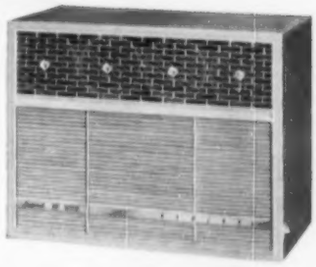
First result—we got a council of 7 members elected at large, replacing our 20 aldermen, each representing a ward. In theory, a small, nonpartisan council sounds good. In practice, it proved neither representative nor democratic. Let me explain.

Madison occupies a long, narrow area between lakes. They enhance our civic beauty but also spread our population. Capital Square divides the eastern and western sections. Five of our seven councilmen came from the west side. This is our better-income area. It has the smallest population density, the largest homes, the best recreation facilities.

One of the two new council members lived three blocks east of the square. But the big part of town, where most of our working people reside, got only one representative.

Second result of the new manager-council system was that with councilmen-at-large, most of our citizens lacked any sense of direct contact with government. Under the old ward-alderman setup, you usually knew the man from your area, in many cases by first name. He lived nearby; you saw and [*Turn to page 21*

COOLS AN ENTIRE HOUSE



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Is the city manager plan the answer?
YES

Begins on page 14

to understand that the most important single feature of the council-manager form of government is *the extreme concentration of power and responsibility in the council, the legislative body. They have neglected this feature, while extolling the advantages of having a professional, trained administrator.*

"Perhaps some of the misplaced emphasis stems from the use of the term 'council-manager' and would have been avoided if another name had been coined—such as 'council-management government,' the 'corporation-form government,' or 'business-management type government,' to suggest but a few.

"A different name might help eliminate such frequent misstatements as 'We have city-manager government.' It would also do away with the old chestnut that is used to confront applicants for a manager's job: 'Do you regard this as the manager-council or the council-manager form of government?' This question probably holds the world record for always being answered correctly. Regardless of the merit of changing the name, the present term 'council-manager' seems to imply a degree of equality which does not exist and it very probably is the cause of some of the undue attention directed at the manager.

"This misconception of the manager's authority and responsibility is the weakest point in the council-manager form of government, if we can judge by the frequency of attack. It is interesting, therefore, to examine this complaint about the loss of authority by the council. Although critics of the plan usually speak with nostalgia of the good old days under the mayor-council form of government, a careful examination of the facts discloses that under the council-manager form of government more power is concentrated in the council than under the mayor-council form. The really distinguishing feature is that attempts to use that power for personal or political aims can generally be thwarted. But there are no limitations on the exercise of this power toward legitimate ends.

"The degree to which authority and responsibility are concentrated in the council is apparent if comparisons are made with other forms of local government. One of the basic indications of authority is control over personnel matters—hiring and firing, to be specific. It is a generally accepted principle of council-manager form of government that hiring and firing are administrative and should be left to the manager. But it must be appreciated that practically the only restraint placed upon the council in this connection is self-restraint. The manager, in persuading council to keep on its own side of the fence in these matters, must rely upon the understanding of the council members and their willingness to abide by the principles of good management. It is true that the customary council-manager charter gives the power of hiring and firing to the manager. Many charters go further and specifically forbid the council to interfere in appointments or removals.

These provisions appear to strip the council of its power over hiring and firing. But the other side of the coin appears in the fact that the council does hire and fire the manager and he is their employee. Because of this, the council can exercise its authority over the manager in hiring and firing subordinate employees in at least three ways.

1. If a councilman thinks the manager is making a mistake in hiring or firing or that he has been misinformed, he can discuss the matter privately with the manager. This should be the first step. The manager should be willing to give full consideration to any facts which the councilman has to offer. A distinction must be made, however, between facts and opinion.

2. If the council believes that

[*Turn to page 18*

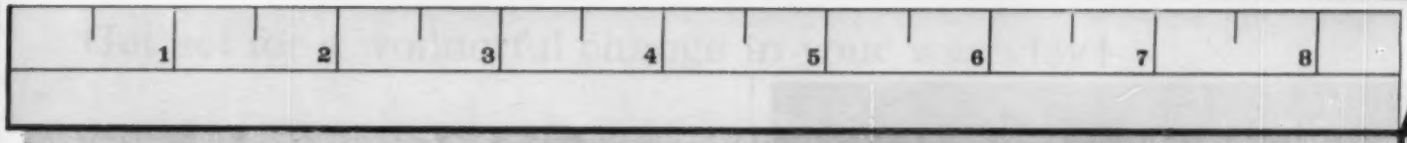
What's the score with city managers?

Number of communities using plan, *1,415.* **Counties,** *15.*
Adoptions in the past year, *111.*
Up for consideration in next two years, *about 300.*
Communities abandoning since first tried, *53 after trials ranging from 1 to 32 years.*
Communities abandoning the administrative commission plan in same period, 200.
Communities abandoning the strong mayor and council plan, *about 800.*
States with greatest number of managers: *California, 143; Maine, 127; Texas, 110; Michigan, 103; Florida, 127.*
Largest cities using plan: *Cincinnati and Kansas City, both since 1926. Dallas since 1931. Rochester, since 1928.* **(18 of the largest U. S. cities do *not* use the plan.)**
Average salaries paid managers: *In communities under 5,000, $5,500. Communities over 250,000, up to $20,000. Tops, Cincinnati, $30,000.*

For further details write:

National Municipal League
47 East 68th St.,
New York 21, New York

International City Managers Association
1313 East 60th Street,
Chicago, Illinois



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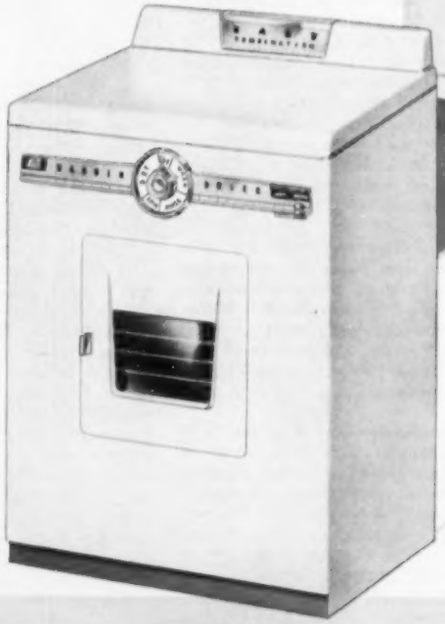

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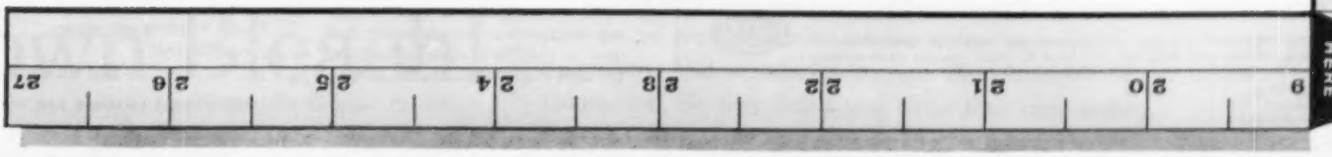

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Is the city manager plan the answer?

YES

Continued from page 16

the manager is acting unfairly or improperly in hiring or firing and that he is unwilling to review his decision, the council can hold a hearing or an investigation of the manager's conduct in the matter.

3. If the council feels that the manager has made a serious error which he is unwilling to recognize and correct, they can remove him.

These three steps add up to real authority and control in the matter of hiring and firing. They obviously do not add up to interference for reasons of personal or political friendship or animosity—and in this fact lies the strength of the council-manager plan.

In contrast, the council can be said to have almost no authority over hiring and firing subordinate employees under the mayor-council form of government, except such authority as it can exercise through political influence. If it is a weak-mayor type with a board or commission running each department, members of the various boards and commissions usually insist that they are going to run their department and they won't accept interference by the council, the mayor, or very frequently even by the department head.

If it is the strong-mayor type, the mayor, secure in his position as the elected head of the government, can exercise his authority over hiring and firing and the council is usually powerless to interfere.

The only way in which the council can exercise authority over hiring and firing in the typical mayor-council type government is through political influence. Under council-manager form, political interference is effectively barred, but authority exists to prevent any serious mistakes or injustices.

Another element of authority in government is control over finances. Under our representative forms of government, the legislative body always has the final authority to determine the budget and levy the taxes. But the degree to which control over finances can be effectively maintained can vary markedly.

Under a weak-mayor type of government, a typical modern pattern calls for a finance board which appoints and controls the city's chief fiscal officer. Another frequent pattern has the fiscal functions assigned to one or more elective officials. In either situation, the council is in a poor position to control financial matters effectively. In those cities where no proper budget is prepared by anyone, it, of course, becomes impossible to properly control finances.

In a strong-mayor type of government with an executive budget and the chief fiscal officer appointed by and responsible to the mayor, the council again is deprived of direct control over financial matters. Because the mayor has at least equal if not superior status as an elected representative of the people, he can certainly resist any attempts by the council to dictate to him on fiscal matters. Frequently armed with veto power, he can in some instances negate the legislative process and impose his own will on the council.

In contrast, under the council-manager form of government, the chief fiscal officer is usually an appointee of the manager, who in turn is appointed by the council. There is no question but that the council can and usually does exercise its authority over the city's financial affairs in a more comprehensive manner than under the mayor-council form.

Critics of the council-manager plan have been heard to say that this form of government constitutes an abandonment of the traditional American system of checks and balances inherent in the separation of powers between the divisions of government. And so it does, but not in the manner which they suggest. It is not the executive which has been freed from restraint but the legislative branch. What has been done is to eliminate the legal checks that the executive could utilize against the legislative. In place of these legal checks has been substituted a moral restraint which relies upon the adherence by the executive to professional and ethical standards.

Within the scope of municipal operations permitted by the basic law or charter, the power of the council is very nearly absolute when directed toward legitimate ends. If threatened with the use of this power for illegitimate ends, the manager's weapon is the process of laying bare the facts, defining the issue and encouraging—largely through his personal example—the desire of the council and the public for effective government devoted unselfishly to the public welfare.

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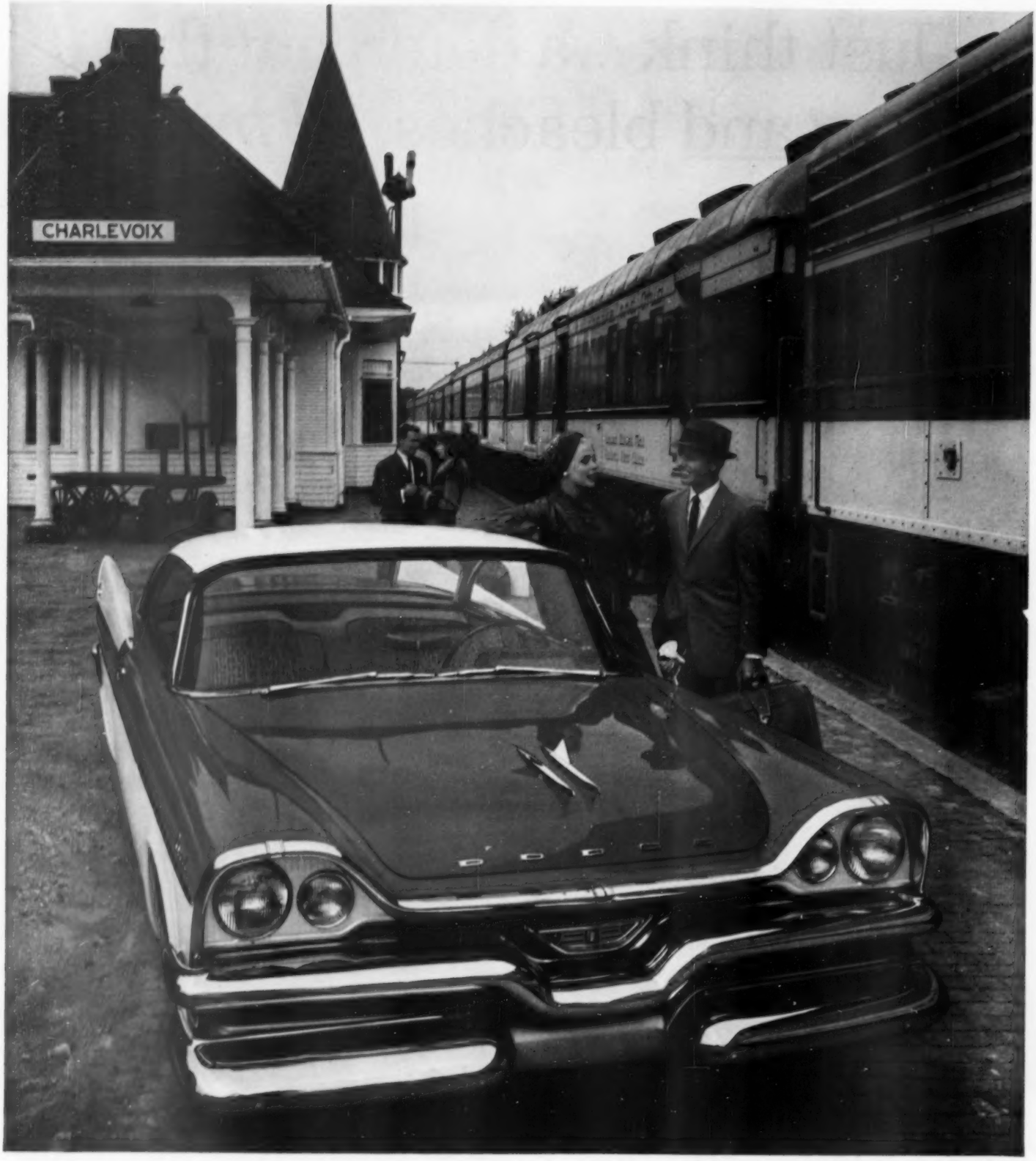

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This is an advertisement by Dodge

Is the city manager plan the answer? NO

Begins on page 15

talked to him like a friend. Whether you had a blocked sewer or hazardous crossing, a street needing repairs or a vacant lot threatening to become an eyesore, you could quickly and easily reach your alderman. And you got action with a minimum of delay or red tape.

The system worked because *your* alderman made himself responsible for the welfare of *your* area. Citizens could, and did, make their viewpoints, aims, and desires felt—quickly, forcefully, and accurately. Most aldermen felt the best government was one that governed least—and was most responsive to all classes and areas.

Under the manager system, you had to take problems up with an official in City Hall downtown. Most citizens found they didn't know a single councilman, much less the outside expert brought in as a manager. In effect, the manager plan seemed designed to prove that the farther government could be taken from the people, the more efficient it might be.

Additionally, when we eliminated neighborhood representation, we lost our most effective training ground for citizen entry into civic affairs—a vital need as city growth weakens that contact between government and the governed.

Third result of managership was that instead of open debate on new and important policies and developments, with all areas represented, there were frequently secret discussions. With two alert, vigorous newspapers, our citizens counted on the press to keep them fully informed on local affairs. Under the new regime, though, everybody's welfare was threatened. Our own paper and the Wisconsin State Journal—a strong manager-plan supporter, incidentally—were often barred. Editorial protests were unavailing.

Even councilmen experienced great difficulty finding out what was to be on the council's agenda until the matter was tossed on the table. Not infrequently, as some manager proponents admitted, real decisions were made by the manager in conference with private individuals who were better informed than the council.

Some insist that such procedures vary with the manager's personality. Under the ideal operation, they tell you, all business is supposed to be conducted openly. But managers concede that letting the public in on policymaking is up to council. Whatever the "buck pass," however, my point is that what is supposed to be true in theory isn't always observed in action.

Fourth result of the manager plan was a series of steps designed to improve municipal efficiency. Our manager first tackled city finances, sought to reorganize various departments, expanded the planning program, and reformed our civil service procedure.

The effectiveness—or lack of effectiveness—of these changes is debatable. They certainly didn't get the backing of a majority when the test of the next election came around, one good measuring rod. Our reassessment of property for tax purposes is a good example. We needed a change after 22 years. Under the manager plan, a board of five citizens was established to hear the inevitable complaints. However well-intentioned, it didn't work out half as well as our older system of a review board of three elected officials whose very election was a voter demonstration of belief in their impartial judgment.

Businesslike efficiency was also imposed in other departments—some good, some completely valueless—and dropped as soon as our manager departed. Our voters' decision on this point, it seems to me, was based on something manager proponents often overlook: that *mere efficiency isn't necessarily municipal government's primary aim.* Running a community is not a

[*Turn to next next page*

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Is the city manager plan the answer?

NO

Continued from preceding page

private business. If a poor neighborhood requires more recreational facilities than one with large homes and lovely gardens, they can't be denied just because the poorer area doesn't contribute the same percentage of taxes.

If a dangerous grade crossing must be eliminated or fire hazards corrected, elected officials must take a vigorous lead and enlist public support as well as find the best corrective engineering. Public welfare can't always be measured in terms of the dollars-and-cents profit and loss which guide private business. It must, of necessity, be judged in the light of what's accomplished to help everybody.

Moreover, when you have a flood, epidemic, or any unusual activity, you can't stop to argue the cost of helping victims or the possible budget deficit. You have to get the job done quickly and effectively—and handle the memos and documents later.

Point five turned out to be the vital difference between policy and administration. The manager plan lays great stress on the fact that a manager is supposed to serve as administrator and the council as policymaker. In action, however, you find managers often forcibly inject their own views and personalities into policy matters, frequently becoming storm centers. Realistically, most managers can't be effective administrators of controversial policies without sacrificing their professional managerial status. Thus, in effect, they lose their purported advantages of purely administrative impartiality.

Conflicts between managers and councils are, as a result, far from infrequent. They are the hidden reason for more abandonments than generally believed.

In other cases, since council meets only irregularly to "advise" on policy, while the manager works full time, managers in practice frequently dominate their councils. Councils are too often put in the position of going along with a strong manager's policies and acts—or passively accepting his recommendations simply because he's the only top official to guide the follow-through. Thus, managers often become the very political bosses they so vehemently decry with one personal advantage—they aren't as responsive to, or aware of, local customs, traditions, personalities, and priorities as the political leader who derives his strength from the people.

Ofttimes, proponents feel that once the manager plan has been adopted, all their problems are solved. This turns out to be anything but the case. In fact, under the mayor-council plan, citizens are much more alert day-by-day to the various aspects of their government and, hence, are likely to be more concerned, interested in, and anxious to support it.

A mayor who must, as in our community, go to the voters for re-election after two years—and who can also be recalled by the voters themselves—is far more likely to be in tune with his community than any outside official appointed to his post by council, no matter how highly experienced.

Of course, council has the right to fire a manager when dissatisfied with his performance. But here again, theory and practice are often worlds apart. Once someone gets into a post where you can't see him as clearly as a mayor, dismissal usually is no easy matter.

On the other hand, there are many cases where a manager "ups and quits" just when he may be needed most. Many managers, especially in smaller communities, seek to make names for themselves to get better jobs. To gain reputations as doers and accomplishers, they frequently advocate unrealistic spending, increasing local tax rates or indebtedness beyond the community's real needs and abilities. When they've made a record

[*Turn to page 191*

"I wonder where in the world she dug this one up?"

your golden hour . . . your own special time . . .
when you alone can know the wonder
of a warm SweetHeart bath

Such a lovely interlude, your own SweetHeart bath. The quiet luxury of a little leisure.
Then the warm glow, and the fresh, lively tingle your skin adores.
How SweetHeart manages to make you feel so good is SweetHeart's own special secret.
We can tell you this much though: SweetHeart's blossom-light fragrance,
graceful oval swirl and gentle, gentle softness are only part of it. The rest?
Well, try SweetHeart for your hands and face or all of you and see.

©1957, PUREX CORPORATION, LTD.

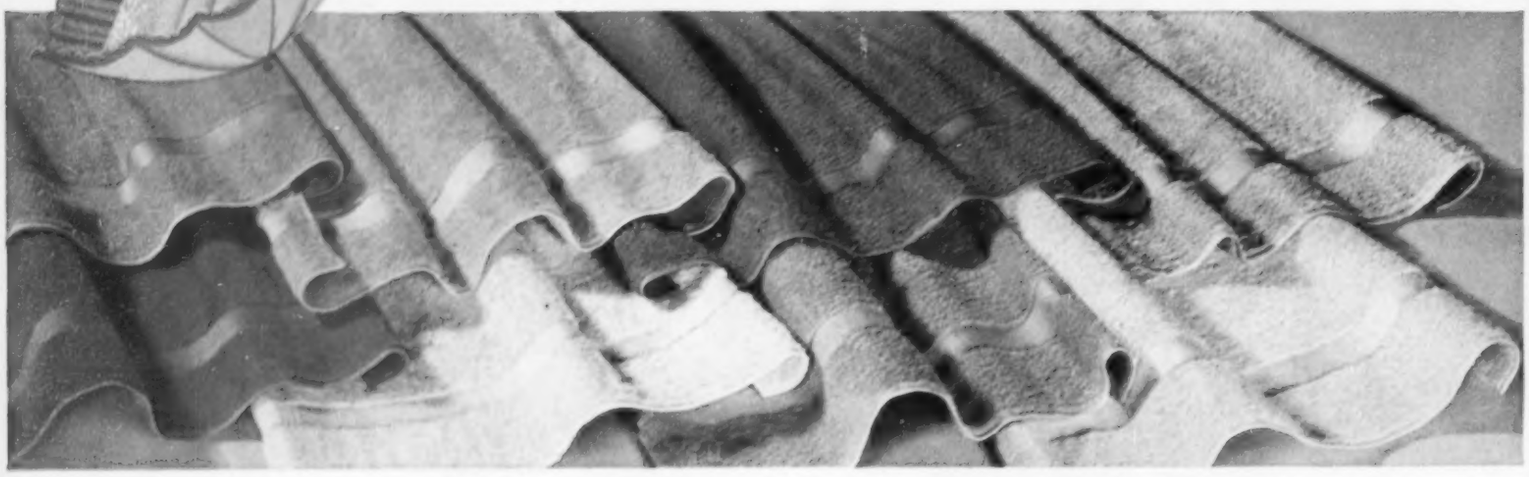
now "glamorapped" in new gleaming foil

because SweetHeart adores you so!

SAVE in the Cannon Shower of Towels

JUST WHEN YOU NEED TOWELS MOST

FOR HOME, GUESTS, GIFTS—SPECIALLY PRICED!



Don't miss the downpour of Cannon towel bargains. Choose from a wide variety of beautiful Carefree colors, decorative borders. Every size and type you need for home, cottage, camp; gifts, too. Priced from $1.29

Brighten your bathroom with towels that twinkle with soft, washable "gold" yarns. Set them off with terries in Cannon Carefree colors. In the Cannon Shower of Values they're priced to save you money, starting at $1

Towels work overtime in summer! Save now on long-wearing Cannons. Towels shown about 79¢

Gift shopping? No one ever has too many towels. The new Spencerian with "gold" border, about $1.79

More swims, more outings! Scoop up big beach towels at savings. Many styles from $1 to $5.98

WATCH YOUR LOCAL NEWSPAPER FOR THESE SPECIAL CANNON VALUES!

Cannon Mills, Inc., 70 Worth St., New York 13, N. Y. • Towels • Sheets • Bedspreads • Draperies • Stockings • Terry Cloth

TRADE MARK CANNON

Have you heard?

Latest Garden News®

By Dr. R. Milton Carleton

Use rye grass cautiously

Sowing a lawn in late spring, too late for permanent grasses? Then don't sow rye for a temporary cover.

What is not commonly known is that all rye grasses give off a toxic substance from their roots which checks growth of other grasses. Extracts from their roots will actually stop the germination of seeds of the permanent lawn grasses.

When a temporary rye-grass sod is turned under, enough of this growth inhibitor is left behind to seriously check the growth of other grasses. A much safer grass, for temporary lawns or nurse crops, is Red Top. It costs more by pound, but the same by area covered.

Long-lasting potash food developed

The success of ureaform fertilizers, which release nitrogen slowly, has stimulated research into fixed forms of other plant foods. One of these is potash, now available as a glassy "frit."

Tests made in California on greenhouse crops show that this potassium frit has a long feeding period. A single application, in combination with ureaform nitrogen, has been enough to carry flower crops all through one season.

Whether or not the frit would be useful in your garden depends a great deal on the type of soil. Potash is seldom deficient in soils containing clay. In sandy soils, however, potassium is sometimes leached out and frit would be of value in such a case.

Better necks for butternut squash

Butternut squash sometimes produces long-necked specimens which are "throwbacks" to parental type.

Most of these long-necked squash are produced at the ends of the vines. Experiments at the Eastern States Farmers Exchange, West Springfield, Massachusetts, show one way of reducing the trouble.

When the plants are small, just nip out the growing tip above the first set of leaves. Young plants, so treated, produce a greater number of normal fruits.

New one-two punch for weeds

A new multipurpose weed killer will give gardeners a helping hand this summer. It's a mixture of 2,4-D and sodium methyl arsonate that knocks out both crabgrass and broad-leaved weeds.

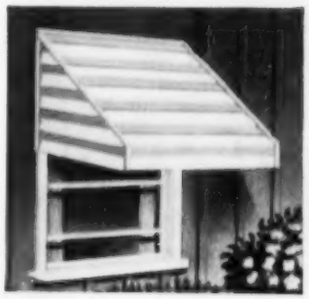
The material is applied with a spreader, like plant food. It should be applied on grass that is wet with dew or that is dampened with a sprinkler. Three ap-

More on page 210

An advertisement of the Reynolds Metals Company

BETTER HOME
Product News

Hot weather pleasure for everyone with family pools that "bring the beach to your backyard". Type shown combines best features of rigid and collapsible pools. A rustproof aluminum wall protects the inflatable plastic pool against rough use and prevents water loss experienced with unsupported rim. Adaptable to below-ground or surface installation. Completely portable. Easy to dismantle for convenient storage. For names of manufacturers, write *Reynolds Metals Company, Dept. F., Louisville 1, Kentucky.*



Give your home that extra touch of luxury and distinction with aluminum awnings—available in a wide variety of color schemes, styles and shapes. Aluminum awnings are wonderful in summer because they can reduce room temperatures up to 15°; cut air conditioning costs; protect drapes and furnishings from sun-fading; keep rain out when windows are open for ventilation. Aluminum awnings won't rust ever and retain their handsome appearance.

Leading manufacturers of all kinds of products—outdoor furniture, appliances, automobiles, housewares, boats, outboard motors and other sporting goods, all types of building products—are using more and more Reynolds Aluminum to make their fine products even finer. Reynolds is proud to supply these manufacturers with this strong, lightweight, rustproof metal . . . proud that "The Finest Products Made With Aluminum Are Made With Reynolds Aluminum".

Protection and beauty are combined in aluminum chain link fencing. Erected cost is less than cost of rustable type plus first painting. Aluminum, of course, is rustproof and strong so you get lasting attractiveness without painting maintenance. For maximum protection of children, pets, lawns and gardens at lowest final cost, get aluminum chain link fencing. See your dealer or write to *Reynolds Metals Company, Dept. M., Louisville 1, Kentucky,* for names of manufacturers.

Spruce-up this summer with aluminum paint—the paint that goes on like a bright, shining, protective coat of liquid aluminum. Use outdoors on play yard equipment, garden tools, fencing, rustable metal gutters, etc. They'll look better, last longer. Reynolds does not make paint but the finest aluminum paints are made with Reynolds Aluminum pigment. For booklet on uses, and application suggestions, see your dealer or write *Reynolds Metals Company, Dept. P., Louisville 1, Kentucky.*

Five Star 2706 sits well in wooded setting—as it would on small city lot. Few houses do. But here's a house that could be built anywhere—and be *right.*

Look what they got in a small house

★★ FIVE STAR HOME 2706
★★ YOU CAN BUY PLANS

. . . without sacrificing today's best planning and design ideas. Here, within a Traditional setting, this young family's first new house is fitting now—and will be years from now

Photographs: Lisanti, Alderman

Owners Tom and Sue Briggs take evening break from many projects. Still building, they're thinking now of family-room addition (ideal in space of carport).

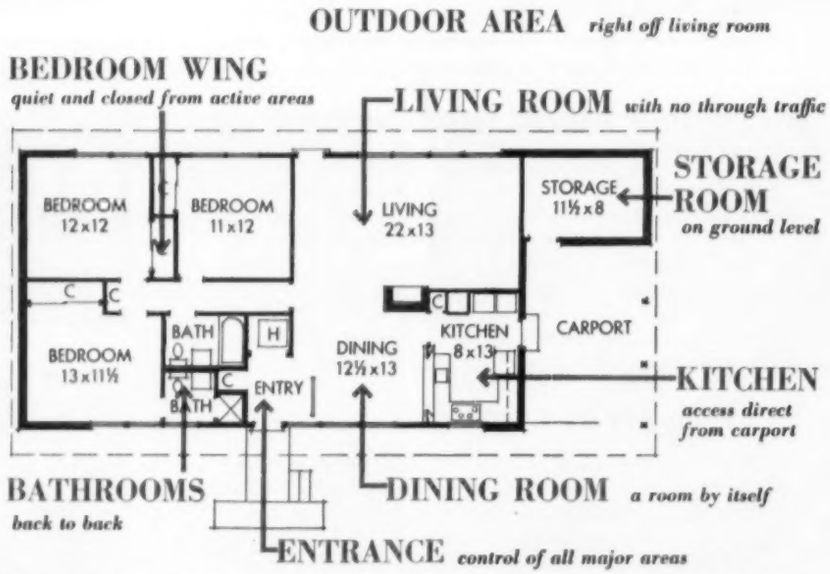
By John Normile, A.I.A.

Tom and Sue Briggs, like most young couples, were apartment dwellers during their early married years. This is their first house.

Most young families aren't as lucky—or maybe as wise—with their first-built home.

They started by selecting an architect who was able to wed modern planning to the traditions of Raleigh, North Carolina.

Tom and Sue pitched in on building and landscaping themselves to have things as complete as possible from the beginning.



Three-bedroom, two-bath house has 1,328 square feet, 61½x28 over-all dimensions (including carport). Architect: G. Milton Small, A.I.A., of Raleigh. Landscape Architect: Dow Pender, Jr.

More photographs on page 174

General Electric Thinline Air Conditioner has no unsightly overhang—inside or out

No matter what kind of windows, wiring, color scheme or budget you have, you can have the cool comfort of a modern General Electric Thinline.

Here's why the ideal air conditioner for your home is the General Electric *Thinline:*

It fits anywhere. So compact (only 16½ inches thin) that it fits almost any kind of window. Flush with inside wall, no unsightly overhang outside, takes up ⅓ less space than previous, old-style models.

It fits any wiring. Some *Thinlines* work on so little current that there's one to fit the electrical service you already have.

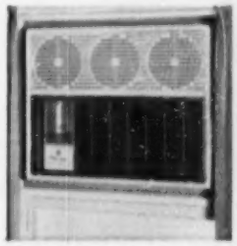
It fits any color scheme. Six cheerful spray-on colors blend your Custom *Thinline* models with any décor.

It fits any budget. Both the Custom *Thinline* (shown at bottom) and the even lower-priced De luxe model (left) are temptingly priced. So *now* there's really no reason to do without cool comfort. They come in ½, ¾, 1 and 1½-horsepower models, range from 5500 BTU's* to 13,350 BTU's.* Accessories include a *permanent* electronic filter (at extra cost).

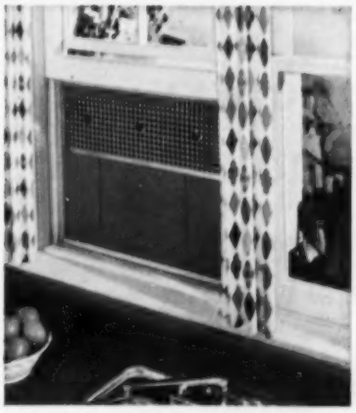
See your General Electric dealer now. General Electric Company, Room Air Conditioner Dept., Louisville 1, Ky.

New 115-volt, 1-HP Thinline packs a 9,000 BTU* cooling capacity. Another *Thinline* works on 7.5 amperes, has a rating of 6600 BTU's.* Both are De luxe models, at hard-to-resist prices.

***Cooling capacities** are tested and rated in compliance with ARI (Air Conditioning and Refrigeration Institute) Standard 110-56 and are stated in BTU's (British Thermal Units).



Only 16½ inches thin—takes up ⅓ less space, fits almost anywhere



FITS IN UPPER HALF . . . OR LOWER HALF . . . CAN GO ALL INSIDE OR ALL OUTSIDE . . . IN CASEMENTS . . . OR RIGHT THROUGH THE WALL

There are two General Electric *Thinline* styles—Custom and De luxe. Custom models, shown in four typical installations above, give you a choice of colors.

Progress Is Our Most Important Product

GENERAL ELECTRIC

Isn't it time to make an entry in your family snapshot diary?

Keep a picture record of the fun you have. And keep it up-to-date—as millions of families do

A snapshot diary of your family fun is something you'll always treasure. But to have it to enjoy through the years, you must first *take* the pictures.

The truly remarkable new cameras and films by Kodak make picture-taking easier than ever. With the camera shown at right, for example, you just set a lever for type of film—color or black-and-white—then aim and shoot.

Why not take a friendly hint from millions of families all over America? Start saving *your* good times in a snapshot diary.

Simple new camera fashioned to your taste

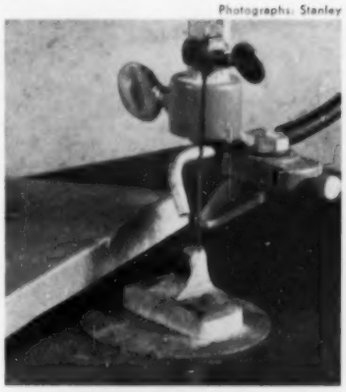
The new Brownie Starflex Camera is light . . . smart . . . a joy to handle. And it takes *all three:* color snapshots, black-and-whites, and color slides. Ask your photo dealer for a demonstration. Only $9.95, including Federal Tax . . . or as little as $1 down. It's made by Kodak, so you know it's good! (*Price is list, subject to change without notice.*)

EASTMAN KODAK COMPANY, Rochester 4, N.Y.

HOW-TO

for the handyman®

Photographs: Stanley

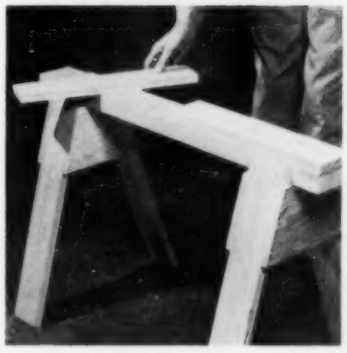


Get solid support when you cut concave and convex materials on jig or bandsaw with this 2-inch-high "jack" fastened to hardboard or plywood saw table insert.

Jack is of hardwood cut to this shape; fasten it on with glue and screws.

Material rides on top of it, eliminating wobble and vibration caused by saw blade.

Z. Zoller
Des Moines, Iowa



Supporting wide stock on narrow sawhorses can cause problems when you're using them for such jobs as sawing, planing, and finishing.

Two "turnbuttons" such as these will increase surface.

Use two pieces of ¾-inch-thick lumber the same width and less than half length (so they pivot out) of cross members. Screw on.

Milton Young
Boston, Massachusetts

Hardened putty stuck to rabbets in windows and storms is easy to scrape out with old hacksaw blade.

First, chip away all the glazing you can with putty knife. Then go to work with the blade, as shown.

Sharp teeth cut old glazing away fast for new wood start. Before reglazing, seal wood thoroughly.

R. K. Norton
Los Angeles, California

Scribing stock to match irregularities it will butt against is quicker with jig like this.

Use narrow strip of heavy paperboard (flap from cardboard box is adequate); cellophane tape anchors marking pencil to it.

Paperboard follows rough edge; pencil follows it for accurate cutoff line.

A. Tulley
San Francisco, California

More on page 31

THE BEST WAY TO OPEN A GARAGE DOOR

you stay warm and dry *while Delco-matic does the work*

It's wet. It's miserable! You pull into your driveway, touch a button on the dash, and your garage door rises—automatically. Delco-matic does it while you sit in your car.

No more wet feet, or tugging heavy garage doors in the rain. Another touch of a button indoors and the door is lowered and locked. Think of the convenience to women, elderly people, or semi-invalids.

The Delco-matic is safe, sure and simple . . . fits any car, almost any garage, and nearly every type of door. Built-in safety features protect children, and the door can be operated by hand in event of power failure.

Delco-matic, which mechanizes the largest piece of moving equipment in your home, is backed by Delco Products and General Motors. Use the coupon to find out more about Delco-matic Garage Door Operators, or look for **Crawford Door Sales Company** in your telephone directory.

mail to:
DELCO PRODUCTS Division of General Motors Corporation, Dayton 1, Ohio

Delco-matic Garage Door Operators are sold, installed, warranted and serviced by Crawford Door Sales Company, the nation's leading garage door specialists.

Please send me more information on Delco-matic Garage Door Operators

NAME _____

ADDRESS _____

CITY _____ STATE _____

Mrs. Frances Loughran of The Bronx, New York, making the Cheer window test.

"It's really true! Cheer washes so white you can see the difference!"

Cheer's** Blue-Magic whitener **makes the difference . . . and only blue Cheer has it!

Try blue Cheer yourself, and you'll discover that there's a difference you can actually see between ordinary white and *Cheer*-white.

Here's why. Only Cheer has the Blue-Magic whitener . . . a special ingredient that get clothes *really* white! Even whiter than the day you bought them! And you know that when your white things are this white, your whole wash is thoroughly clean!

Try Cheer today and make your own window test. See the difference in whiteness yourself!

If you judge your wash by whiteness . . . it's got to be Cheer!

How-to for the handyman

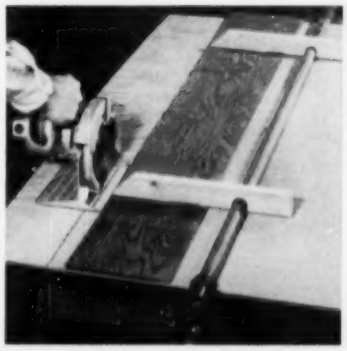
Begins on page 29

Start nuts and bolts in cramped quarters, when you have to use universal attachment of your socket set, by taping the joint rigid.

Then, when threads catch, you can remove the tape and cinch fasteners up tight.

Regular or plastic electrician's tape does good job . . . so does the cellophane variety.

C. C. Marks
Seattle, Washington



This guide for your portable electric saw ensures accurate cuts on sheet materials—rip or crosscutting.

Expansion bit notches 1x2 stock for bar clamp; ¼-inch plywood material with one straight edge is fastened on 1x2s with flathead screws.

Make sure plywood is on square; seal wood so moisture won't warp it.

R. D. Kramer
Polo, Illinois

Scraping jobs (wood working, removing paint and varnish, and so on) are easier to do if you can get right amount of leverage on scraper.

When regular handle isn't handy, try locking blade in jaws of small C clamp.

For the best results, clamp blade at center so it will be rigid and won't "twist" when pressure is applied.

Ed Porter
Rochester, New York

Taping splices in hard-to-get-at electrical boxes and other tight spots calls for this professional trick:

Roll short strip of tape as shown—sticky side out. Then cut it from the roll.

Index finger "curls" tape around splice; thumb presses it tightly in place.

Make sure splice is mechanically sound first.

Ashley A. Myers
Wyandotte, Michigan

▶ Send your original handyman tips (photographs are not necessary) to Home Maintenance Editor, 6706 Meredith Building, Des Moines 3, Iowa. For each accepted, *Better Homes & Gardens* will pay $5. All will be considered carefully, but those which are not accepted cannot be returned.

AN ORIGINAL PAINTING FOR FRISKIES BY DOUGLASS CROCKWELL

Puppies "dig in" when dinner is Friskies

—the balanced diet meat-loving dogs love!

IT'S A JOY to watch how Friskies clean, meaty taste satisfies eager appetites . . . to *know* that your dog is getting the well-balanced nourishment he must have for growth and vigor.

DOGS CRAVE MEAT. The principal ingredient in Friskies is lean red horse meat—including choice steaks, chops, roasts. Here's the rich source of Friskies body-building protein, as well as the meaty flavor your dog craves. From other carefully balanced food essentials come the vitamins and minerals so necessary for sound teeth, bone and superb condition.

EXTRA NOURISHING. While some dog foods simply fill, Friskies *fully* nourishes . . . provides *up to twice the nourishment* of dog foods selling for only pennies less. Feed Friskies regularly—made to the high quality standards of the Carnation Company.

For Variety—Friskies Meal
Easiest of all to mix. Quickest, too—mixes instantly. A complete diet containing all the food values of choice steaks, chops, roasts.

Carnation *quality products*

ALBERS MILLING CO., DIV. OF **CARNATION COMPANY,** LOS ANGELES 36, CALIFORNIA

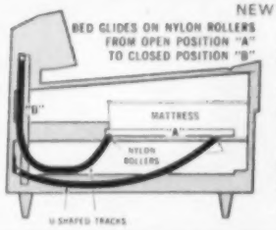
LOOK! THIS BIG FULL-SIZE DOUBLE-BED IS EXTRA LONG!

As shown—Plymouth Sleep-or-Lounge, **$279.50**, matching chair, **$99.50**. Prices higher in some areas and vary according to fabric selected. Other Sleep-or-Lounge styles as low as **$169.50**. *Foam rubber cushions available at extra cost.*

One new beauty that keeps a secret!

You'd never believe such a beautifully proportioned sofa could conceal a full-size bed—but it does! It's the well-kept secret of this new kind of Sleep-or-Lounge styled in the traditional manner . . . warm, friendly and authentically Early American. So comfortable to sit in . . . the same seat cushion lowness as a regular sofa, with full-coil innerspring construction for relaxing body support.

And what a bed! So big—with a wonderful deep innerspring mattress, comfort-assured by hundreds of Premier steel coil innersprings—the finest kind! See the most *beautiful* way to add an extra bedroom to your home! See your Kroehler Dealer soon.



NEW! ALL NEW! GLIDE AWAY ACTION! THE BIG DIFFERENCE IN CONVERTIBLE SOFAS!

Only Kroehler offers this revolutionary new principle that makes possible . . .

1. Smarter styling
2. Better sitting comfort
3. Easier operation
4. Superior sleeping comfort

WORLD'S LARGEST FURNITURE MANUFACTURER

Sleep-or-Lounge® PLUS® BUILT by KROEHLER

(pronounced "KRAY-ler")

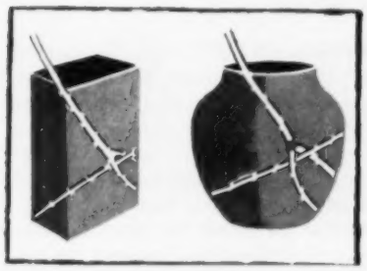
General Offices: Naperville, Illinois — In Canada: Stratford, Ontario

Ways to hold flower stems in place

By Tomoko Yamamoto

Flower arrangements in tall containers usually require long stems that may be thick or curved, unevenly balanced, and difficult to put and keep in place.

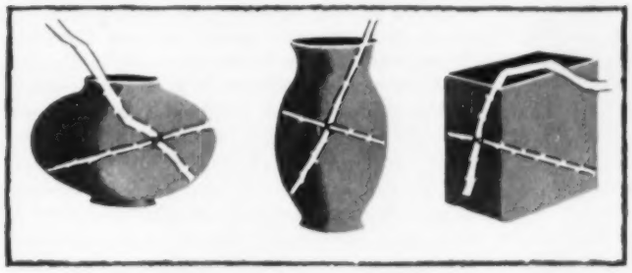
Here are a few handling tricks for just such problem material. You will find them of great help when arranging your flowers in tall or rounded, opaque containers.



Crotched stem over a fitted stick works well in bowled or vertical containers.

Make crotch by splitting woody stems and paring out center of split. Binding of string or wire prevents further splitting of the stem.

A strong supporting stick is cut to fit at the point where you want branch to remain for proper height and placement in the arrangement.



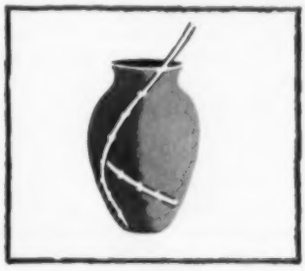
For softer, smaller stems that cannot be split safely, the crisscross tie method is used with the fitted supporting stick. Floral tape or heavy cotton string is most satisfactory: either will remain tight when wet and will not cut through the stem bark.

Note that base of flower stem and ends of supporting stick are cut on a slant to fit securely against sides of the container.

When you use a narrow-mouthed, bowled or convex container, strong, long stems may be bent or cracked to fit against the sides just below the beginning or end of the curve.

The top weight of the branch or flower will provide sufficient leverage to keep the stem in place.

When properly placed, the curved line of the container prevents the stem from slipping.



Use the fitted stick, again, for reverse-curve stems that get no balancing leverage from top weight.

This time it is cut not quite the full width of the vase and is fitted firmly against the flower stem and the side of the container.

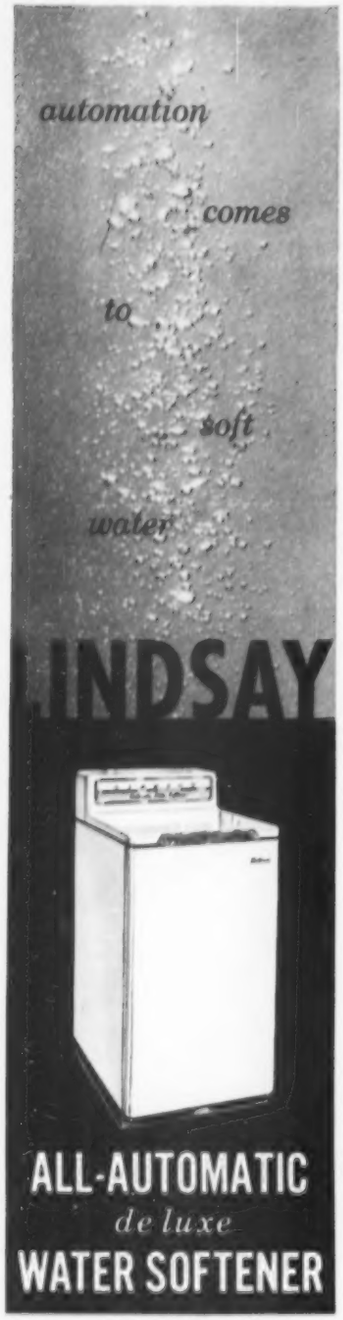
When carefully measured and cut, these props hold like a vise. They can be used many times over. For easier placement, fit at an angle.

quick, easy way to better broiling

Three parts melted butter to one Lea & Perrins. Heat, pour on meat while cooking—and enjoy the most delicious steak you ever tasted! L & P adds a zip and zest to meats, fish, soups, gravies—a hearty flavor men look for. Try it!

LEA & PERRINS *the original* **WORCESTERSHIRE**

FREE—"Dishes Men Like". 168 recipes! Write to Lea & Perrins, Dept. B-6, 241 West St., New York 13



Rustproof-for-life fiberglass tank

Here is something no other water softener can offer you: All-automatic controls (nothing to set, nothing to forget); plus a fiberglass tank (only Lindsay has it) guaranteed rustproof for life. Never before has there been such an error-free, trouble-free way to enjoy soft water for easier dishwashing, brighter laundry and more luxurious baths. See it soon at your Lindsay dealers.

• *New free book describes Lindsay benefits. Write today.*

The Lindsay Co.
1381 Marshall Ave.,
St. Paul 4, Minn.,
Dept. 203

LINDSAY

Dealer franchises available in some areas

THE FAMILY CAR

Preview of cars to come

Will the '58 models be completely new, from rubber to roof? Will horsepower keep climbing? Are superchargers making a comeback? Here's the "inside story" from Detroit

By Donald MacDonald

A banner crop of new features is always the by-product of a highly competitive year in the automotive industry. Currently outstanding is the retractable hardtop, a complex amalgamation of the best features to be found in convertibles and sedans. In blueprint form, the design has long lain dormant on engineers' shelves. It wasn't existence of the idea that caught the industry completely by surprise, but rather the market timing of one manufacturer. Despite a substantial addition to the price tag, the car has clicked with buyers and, to date, there have been no service problems worthy of note. Expect more retractables, possibly adapted to open the front portion of station-wagon roofs.

Under the hood, there is an even bigger battle waging. Manufacturers feel strongly that power is a safety factor, provided the driver uses reasonable judgment, a position of inherently more logic than a seriously proposed law that would make governors mandatory. Late last fall, each of the Big Three treated a Congressional Subcommittee to proving-ground demonstrations that, by split-second timing, dramatically showed the danger of passing at highway speeds in an underpowered car. Cars used were the six-cylinder types that were the latest thing only a few short years ago—and modern V-8's.

Detroit is split on more horsepower. The easiest method, used to a point of diminishing return in the past, is to make a bigger engine. However, this would load overburdened front ends to the point where weight distribution would be more nose-heavy than ever. Also, consumer rumblings over poor gasoline economy in low-priced cars has recently reached epidemic proportions. More power is a factor in 65 percent of sales, but people still gripe if they can't travel 20 miles on a gallon of gas.

Fuel injection, the much heralded method of gaining both power and economy, is now a reality, readily available as an option on three makes and destined shortly to be featured on others. Even those engineers involved with it on their own products, however, view it with mixed emotions. Like air-conditioning in the beginning, costs are high because volume is low and manufacturing experience slight. Systems now sold are capable of improving the basic engine's economy by about 10 percent.

Revival of the supercharger is another route to more power—but not economy. Auburn, Cord, Duesenberg, and Graham featured it back in the Thirties. After the war, Kaiser attempted to pep up an outmoded engine in this manner. The fact that these firms no longer manufacture automobiles has given the supercharger an undeserved reputation as being the kiss of death. Obviously this generalization no longer applies, for the three makers now offering it as an option are quite healthy. Each uses the same basic unit, which supplies extra power only on demand. Peak-power increase can be as much as 25 percent when the accelerator is floored. Economy neither gains nor loses, because the supercharger is barely operative under normal driving conditions. However, the pleasant whine that spells fun-driving to the enthusiast, has been enough to stimulate the sale of about 15,000 blowers a year in kit form even before the three manufacturers produced a factory-installed optional unit.

Most popular horsepower booster is still the addition of more carburetors. The center jug operates alone up to three-fourth's throttle opening. Despite complex linkage, these have not proved to be much of a service problem, and even the makers who have advanced to fuel injectors and superchargers keep multiple carburetor options listed in their catalogs. Whatever one's personal reaction to power packages may be, only six out of 22 American brands of passenger cars still do not offer them—it should be remembered that Detroit never follows a course that does not have sound dollar motivation.

Truly radical engine innovations are still well behind their publicity. At the Daytona Beach races last winter, a whole day was set aside for gas turbine record runs, but no such vehicle showed up. The reason is that manufacturers no longer have to prove publicly that turbines exist. Serious research on these is now under tight lock and key. An industry executive recently predicted that the first automotive gas turbines would be used in cross-country trucking.

As for an "automobile," experts at a nuclear symposium re-emphasized [*Turn to page 38*

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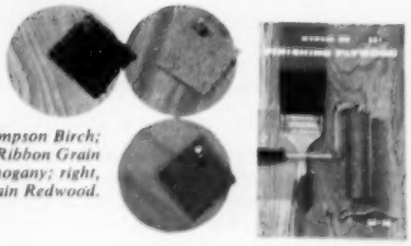

Above: Simpson Birch; above right, Simpson Ribbon Grain Philippine Mahogany; right, Simpson Rift Grain Redwood.

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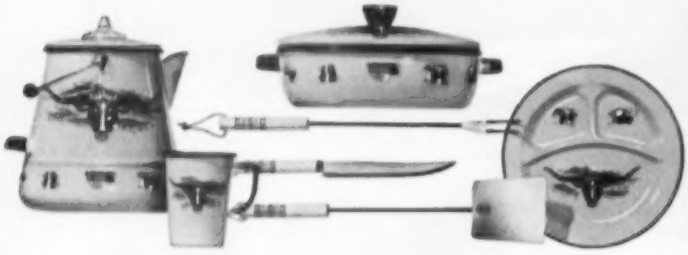

2. Take the Guesswork out of Grilling!

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5. Put Permanent Glamor over your Patio!

Harmony House Verti-Stripe Aluminum Porch and Patio Awnings are built to last a lifetime. They become a *permanent* addition to your home. Nothing to take down in the fall. They meet strictest building codes, and have been tested for both windstorm resistance and snow loading. Tough, baked-on vinyl finish comes in solid colors or smart two-tone combinations. Your choice of white or ten lustrous colors. The 8 x 10-foot size, with white aluminized steel columns, is just $178.00 ($201.90 with decorative ironwork). Purchases totalling $210 or more . . . no money down, up to 36 months to pay on Sears Modernizing Credit Plan. Aluminum patio awnings in smaller sizes as low as $52.50. See Sears for a complete line of door, window, and patio awnings in aluminum or canvas. At optional extra cost, Sears will arrange complete awning installation for you.

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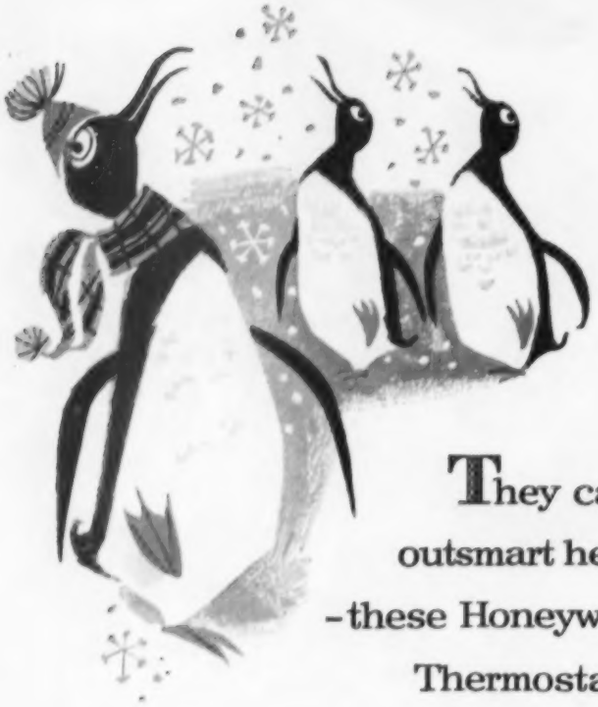

They can outsmart heat -these Honeywell Thermostats

THE Honeywell Year Round thermostat, shown at left, has a remarkable talent for coaxing maximum cooling comfort from your air-conditioning system at minimum expense. But that's just one of its talents. Come winter, it controls the warmth of your home with equal efficiency, economy, and trouble-free accuracy. As pretty as it is talented, the Year Round thermostat can be quickly painted to match any wall color.

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MINNEAPOLIS
Honeywell

First in Controls

Preview of cars to come

Begins on page 34

the obvious fact that a reactor capable of propelling a car would weigh about 40 tons, mainly due to the shielding necessary to protect the occupants from radiation.

The most that can be expected is an all-aluminum, but otherwise conventional, V-8 engine due in a popular make by 1958.

Riding on air now, of course, is a reality if you can afford the $12,500 price tag for the first car that's so equipped. The principal advantage is a constantly level ride, regardless of load or highway contour. Disadvantage is the cost of the air compressor and valving necessary to provide central control. Engineers point out that levelizing also can be accomplished with both conventional springs and torsion bars. In fact, opinion is so sharply divided that even though 1958 will see more widespread availability of air suspension, most of the big makers will stick to variations on orthodox spring designs. Only completely new development in the offing is indicated by the recent purchase by a Big Three manufacturer of a private patent involving the use of shot—like BB's or shotgun pellets—as a cushioning agent. From patent to production, though, involves several years.

There will be only four tires to contend with in the near future. The spare is rapidly being relegated to the museum—along with running boards and rumble seats. Some of the new station wagons, in which level floor space is at a premium, are leaving production lines equipped with tires having an inner air chamber. It's protected by a two-ply layer of rubber capable of supporting the car at moderate speeds until repairs to the puncture in the outer casing can be made. Another approach, not yet adopted by any car maker but on the market as an accessory, is the collapsible spare. A thin emergency tire carried folded in a little suitcase, it can be mounted on the wheel and inflated with a carbon dioxide cylinder, also in the kit. Its sponsor claims that the flat regular tire is easy to remove with the special tool that's provided, but women drivers may be hard to convince.

Safety as a selling point, courageously tried by one manufacturer, was discarded late in 1956. Some of the protective devices that went with the program caught on, others didn't. Optional padding on instrument panel and sun visors, for example, was specified by 43 percent of the buyers. Seat belts, on the other hand, attracted less than half that amount of customers, even though the company offered them at cost. A recently devised jacket to keep small children anchored in place has hardly tickled the cash registers.

Air-conditioning tells another story, one proving that cost is no object to the many who demand living-room comfort on the highway, even in their convertibles. One maker of prestige cars is programming a third of its production—about 45,000 units—to include air-conditioning. A further third will probably have less expensive coolers installed by one of the many independent suppliers, especially in the Southwest. In the state of Texas alone, 94 percent of high-priced cars delivered are equipped with air-conditioning. One maker of much less expensive autos reports he's received twice as many orders for air-conditioned cars already as were produced during the entire 1956 model run.

Sure-fire returns on accessory investments can only be assured through rational purchase. Any item, such as power steering and brakes, must pass through a period of public trial before it commands a premium on the used-car lot. Acceptance ranges from the degree enjoyed by automatic transmissions, to electronic headlight-dimming devices, mobile phonographs, and like gadgetry that have little resale value. Those currently undergoing this test are power-packages and locked differentials, the latter being a gear arrangement that ensures delivery of equal power to both rear wheels.

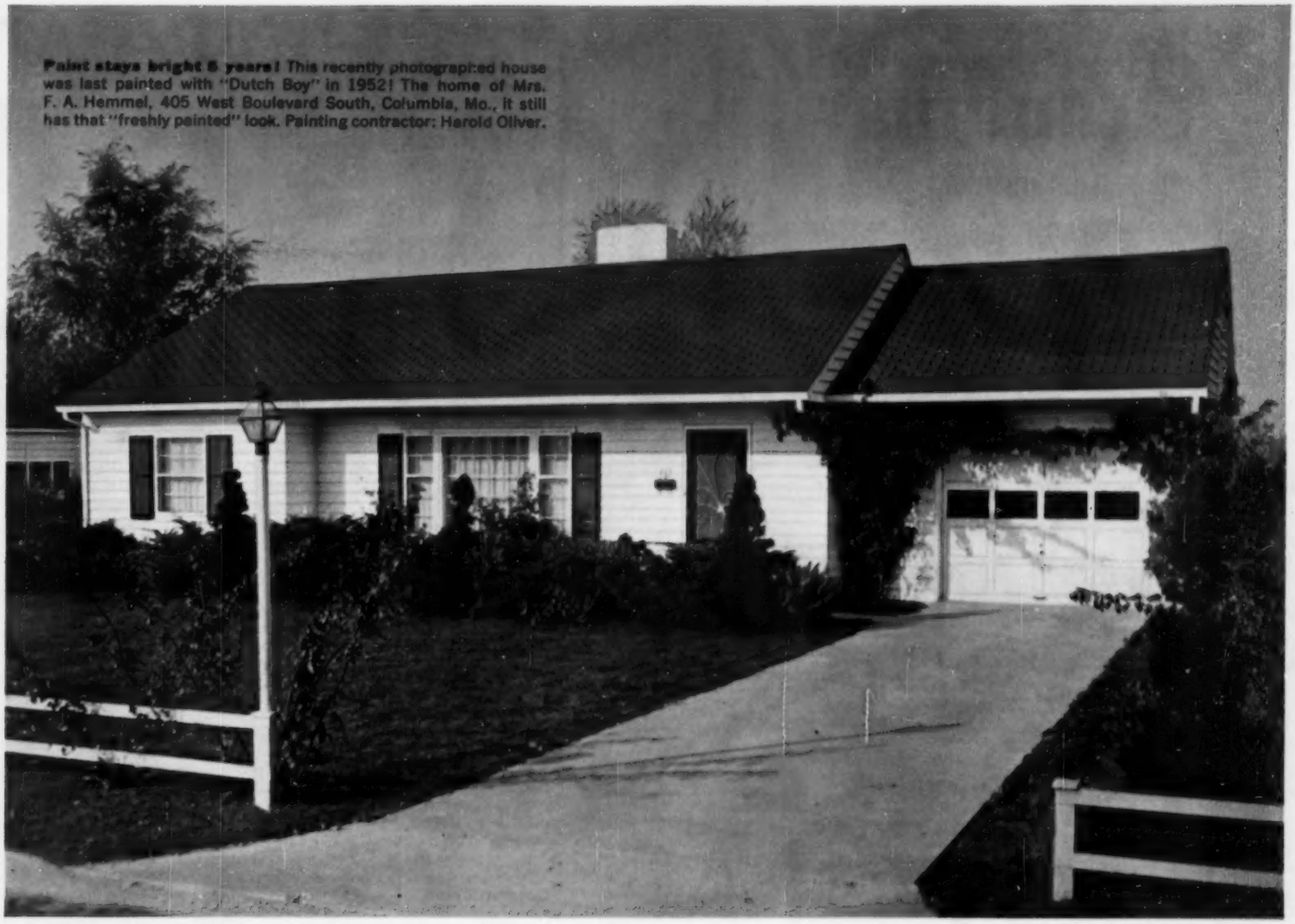
Some 1958 developments can already be predicted. While there will be no more new makers, there will be one new model in the "medium-price" field, with its own styling and dealer organization. Only 7 of the existing 22 makes will be all-new from tires to roof. The rest will be face-lifted versions of this year's massive change which, incidentally, makes this year a good time to buy. Engines will be for the most part V-8's, and certainly located in front of you. There is a strong possibility, though, that two makers will move their transmissions back to a position adjacent to the rear axle.

Perfect passenger

No snide remarks about my driving,
No muttered doubts about arriving,
No begging, teasing, no demand
To stop at every roadside stand. . . .

No back-seat driver, nervous, bitter,
He is a happy front-seat sitter,
And I would be, methinks, in clover,
If people acted more like Rover.

—*Richard Armour*



Paint stays bright 5 years! This recently photographed house was last painted with "Dutch Boy" in 1952! The home of Mrs. F. A. Hemmel, 405 West Boulevard South, Columbia, Mo., it still has that "freshly painted" look. Painting contractor: Harold Oliver.

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Mersman Tables

MERSMAN TABLES *"the costume jewelry of the home"*

How to break the college jam-up

Begins on page 6

the road to higher education is the high finance problem. It now costs the average college about $600 more to educate a student than the college charges him for tuition. With two and one-half million students in college today, the tuition deficit runs to at least a billion and a half a year. By 1975, even if faculty salaries remain exactly where they are, our institutions will really be in trouble; they will have to cope with an annual five-billion dollar tuition deficit. In the face of this fiscal Frankenstein, how can colleges hope to expand?

But it is not only these costs that are worrying educators. They are also concerned about the financial burden that parents who want to send their children to college must carry. A father desirous of putting his two or three children through college will have to ante up a whopping $25,000 for the privilege, a terrific drain on any family budget. If inflation continues, millions will find the price of a diploma a prohibitive luxury.

How can we cope with the coming college crisis before it reaches epidemic proportions? To investigate the problem, *Better Homes & Gardens* assigned this reporter to explore the views of educators, college presidents, legislators, industrialists, and others who have made a serious study of this dilemma. Their realistic recommendations offer a blueprint for the educational survival of our children.

Perhaps the most practical solution to the challenge of crowded campuses is the two-year public community college. Sponsored by New Jersey's Senator Clifford P. Case, this plan has the enthusiastic endorsement of President Eisenhower and James B. Conant, formerly president of Harvard.

Educators look favorably upon the community college because it can serve as a screening device for the four-year college, a badly needed service since fully half the freshman-sophomore classes in four-year institutions drop out at the end of the second year. Inasmuch as it is in the first two years of college that the greatest shortage exists, the community colleges will complement, rather than compete with the four-year college. By absorbing much of the freshman-sophomore load, the community colleges make it possible for the four-year colleges to do a more effective job on the remaining two years and in the professional schools.

Clearly, the community college plan produces the most for the tax dollar. It avoids the expensive costs of building dormitories and of long-distance transportation. It gives the student a chance to remain at home, to find part-time work among his friends and neighbors, and perhaps to combine education and work. From the viewpoint of business and industry, it permits planning of curriculum to meet local needs for technical and skilled manpower. It permits cooperative arrangements for industrial help where faculty specialists and equipment are not available. In many areas, it will be possible for community colleges to use certain high school buildings, laboratories, and training equipment.

The community college plan is well past the pie-in-the-sky stage. Presently, 26 states have laws permitting the establishment of community or junior colleges and 16 states have a program of state aid for them. Says Dr. Robert Gordon Sproul, president of the University of California: "I would today urge high school students to attend junior colleges unless there is a compelling reason for them to go to a four-year college away from home. Junior college graduates who could have met the admission requirequirements of our university, when they were graduated from high school, do as well when they transfer to the university for their junior and senior years as do our so-called native students."

It is Senator Case's hope that his proposed program, should it catch on, will serve as a stimulus to encourage every state in the country to sponsor community colleges. "Obviously, this program would require a large sum," Senator Case said when interviewed, "but our government is already spending millions and millions to assist our farmers, our air lines, and our shipping firms. Surely, our youth and their future are equally important."

Another promising answer to the

[*Turn to page 43*

Just a moment!

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You just *select* the proper heat – the Heat-Minder *watches* it! This big 8-inch surface unit won't let *any* pan get too hot. Foods *won't burn* or boil over!

And Heat-Minder magic gives you the tip-off—electric cooking has **really changed** since you bought your range. Feature after feature outmodes, outperforms *anything* you've ever known before.

Like the Speed-Heat Unit that gets "cooking hot" in seconds. And the Multi-Duty "deep well" Thermizer that's practically an entire range in itself—that bakes, stews, steams, deep-fat fries and even pops corn!

And the marvelous Cook-Master—easy to set as Junior's watch—that gives you an "afternoon out," has dinner ready and waiting when you return.

And, in some models, those wonderful Quick-Clean ovens have the Miracle Filter that "absorbs" oven smoke and fumes *before* they reach your kitchen! Why don't *you* see this dream of a cook with the new Sheer Look in color at your Frigidaire Dealer's.

You'll find his name listed in the Yellow Pages of your Classified Telephone Directory under the heading: "Electric Appliances."

NEW

Frigidaire sells color at no additional charge.

Four fashion-fresh colors like the Charcoal Gray and Stratford Yellow shown here. All in Sheer Look styling for that blend-in, built-in look—for any kitchen, old or new.

Models RI-70-57

'57 FRIGIDAIRE

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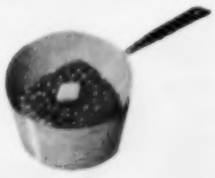
IMAGINE—These Foods Cooked Without Watching, Stirring or Tending!

Fry bacon to perfection in just 6 minutes—without turning it once.

Fry eggs with bacon—or later—in same griddle, at same heat setting.

Cook oatmeal and other cereals—from a cold-water start without stirring.



Thaw and cook frozen vegetables—without water—just add butter.

Candy and frosting won't burn—cook without stirring after sugar dissolves.

Bake a cake on top of the range—constant, controlled heat does it.

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Buy new color Lux by the color of its foil wrapper—

choose from lovely shades of Pink Green Yellow Blue

as well as white

How to break the college jam-up

Continued from page 40

scholastic squeeze is the TV university, pioneered by Chicago educators. In 1955, worried by the fact that their city's colleges were already jammed with 100,000 students, and that no steps were being taken to prepare for the 1970 avalanche, educators held a brainstorming session. Out of this conference came a daring plan, daring because no city had ever tried it. It involved putting a full two years of college on TV over WTTW, which is owned by the nonprofit Chicago Educational Association.

The response was greater than even the most optimistic officials had anticipated. When Chicago's "channel college" opened, in the fall of 1956, some 1,364 students had enrolled. Viewers had their choice of four courses: English, biology, political, or social science. They were permitted to take one course or all four, could work for credit and an Associate of Arts degree. Each TV tutor was backstopped by a staff of 60 colleagues who helped prepare lectures, grade papers, and counsel students.

Though it can never take the place of a live campus, Chicago's TV college offers a handful of academic aces. Since there are no interruptions during the telecast lectures, the instructor can cover in half an hour what would take him 50 minutes in class. Each daytime lecture is filmed and shown again for students who can study only at night.

WTTW is particularly a boon for 52 handicapped freshmen who never dreamed they would some day have a chance to go to college. These student shut-ins include: a totally paralyzed 23-year-old youth who depends on a rocking bed to breathe; a deaf girl who finds she can easily read her professors' lips on television; a blind woman of 55 who tape records each lecture, plays it back to herself until she has mastered it.

National observers believe that if Chicago's experiment continues as successfully as it has begun, the TV college, in this age of communications, will inevitably become a standard part of the United States educational system. They envision a rotating system wherein students will be tutored via TV during their freshman and junior years, be permitted to attend "live" lectures in the classroom during their sophomore and senior semesters. Thus, all graduates will have had a taste of campus life.

There is still another solution to the swelling enrollment problem, but it is a measure as drastic as the surgeon's knife. Proposed by Dr. Earl J. McGrath, now director of the Institute of Higher Education at Teachers College, Columbia University, this plan would amputate two years from the conventional eight-year curriculum of high school and college. Doctor McGrath suggests that the superior students can condense the regular eight-year high school and college program into six years, thereby squeezing the waste and water out of the educational system. Doctor McGrath feels certain that students in the upper one-third of the high school and college classes could safely cut their programs by two years. It is easy to see what this would mean to the nation in the way of additional facilities and earlier graduation of trained personnel.

"What is sacred about the four-year high school or the four-year college?" asks Doctor McGrath, who served for several years as the U. S. Commissioner of Education. "The time has come to take a hard look at these programs."

Another educator who's giving

[*Turn to next page*

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SAVE 20¢ on your FAVORITE COFFEE

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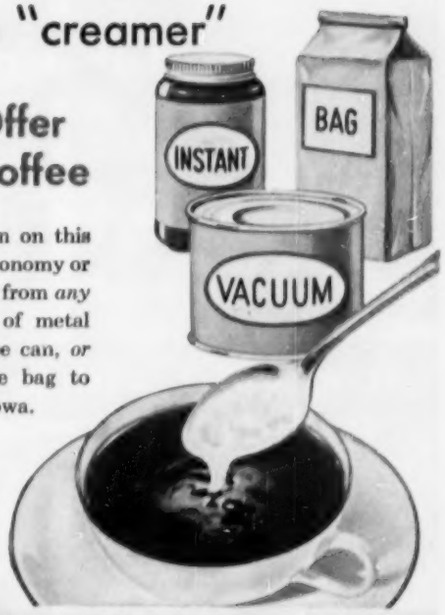

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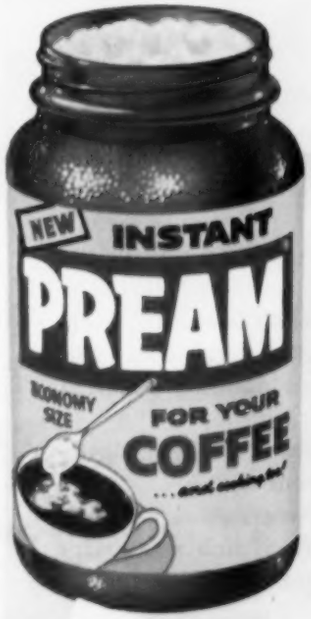

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Sherwin-Williams house paint...

Sherwin-Williams House Paint, famous for its quality for over 89 years, is now better than ever! New developments by our research chemists and laboratory technicians have improved this wonderful paint to bring you the greatest value yet for your painting dollar. It is endorsed by leading painters.

You'll find the right SWP® House Paint specifically formulated for the exterior of your house . . . SWP GLOSS in 52 gorgeous colors for wood siding . . . and SWP VELVET FLAT in 39 beautiful, rich shades for shakes, shingles, stucco and all kinds of masonry.

FREE! The beautiful 44-page "Home Decorator" book for 1957 filled with facts about painting. At your dealer, or write The Sherwin-Williams Company, 1223 Midland Building, Cleveland 1, Ohio.

SHERWIN-WILLIAMS
HOUSE PAINT

How to break the college jam-up

Continued from preceding page

the problem a stern look is Dr. Clarence Faust, president of the Fund for the Advancement of Education. Doctor Faust proposes easing the pressure on colleges by giving students more independence and responsibility through reduction of the hours of formal instruction required in a course. Such a system would permit teachers to handle greater traffic in each classroom. Doctor Faust also suggests self-study courses for certain subjects which would let students spend several weeks working on their own. Each of these courses would conclude with four weeks of class discussion in which the students' work would be submitted to the criticisms of their classmates and instructors.

These, then, are among the most resourceful solutions advanced to meet an unprecedented academic situation. Alma mater sentimentalists may deem some of them too desperate, in that they do not encourage campuses with elms, oaks, and other slow-growing traditions. However, as Devereux C. Josephs, the chairman of the President's Committee on Education Beyond the High School, puts it: "Proms, football games, and other pleasures of campus life may be highly desirable; but they are not indispensable to study and learning."

As for financial relief to help our colleges meet inflationary expenses and to help them expand their facilities, federal subsidies alone are not the answer, for inevitably government sponsorship will lead to government control of higher education.

One encouraging straw in the wind is the growing trend among American corporation leaders to support colleges and universities with gifts of laboratories, auditoriums, dormitories, libraries, wings, and cyclotrons—as well as dollars with which to maintain these fa-

[*Turn to page 46*

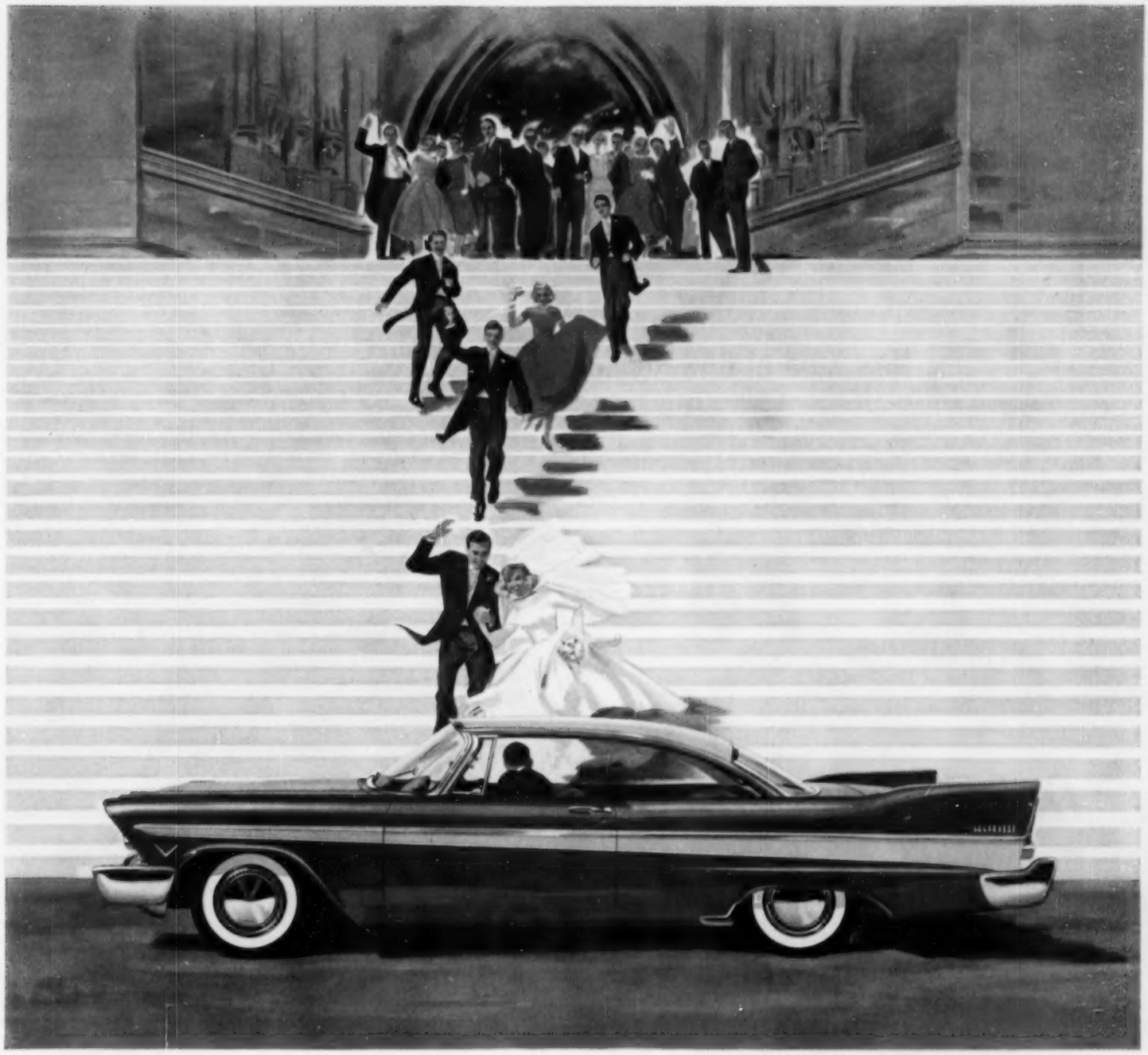
Wilbur Wilt feeds his ROSES

Drawing: O'Reilly

WILBUR STARTED OUT RIGHT. He read the directions on the plant food sack and followed them perfectly. "Spread at a rate of one pound for every 25 square feet in flower bed." And that's just what he did.

But then he got to thinking. "If one pound is good, 3 pounds should be a lot better—and the food is cheap enough." So Wilbur spread two more pounds and waited for spectacular results. He got them. The roses died.

Rule: Follow the directions.



His love of sports cars . . .

Her love of beauty and comfort . . .

are "married" in the years ahead *Plymouth*

3 full years ahead of the "other two" with revolutionary new Torsion-Aire Ride . . . super-powered for safety, up to 290 hp with the terrific new FURY V-800 engine . . . new sports car handling . . . Flight-Sweep Styling, the new shape of motion. *At your Plymouth dealer's!*

Exteriors and interiors designed by Paul Laszlo, Beverly Hills, California.

New Kind of **GAS** Service
makes modern homes more modern!

Now suburbs and rural areas can enjoy the luxury and convenience of clean, healthful automatic gas home heating. Yes, thanks to modern LP-Gas, the safe, dependable fuel, you can enjoy faster, more economical cooking, three-times-faster water heating, quicker clothes drying, silent refrigeration, incineration and air conditioning – *wherever you live!* LP-Gas can be easily stored right on your property. No wonder leading architects now specify GAS for more new homes than ever! Plan your home for gas now, no matter where you live!

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AVAILABLE EVERYWHERE
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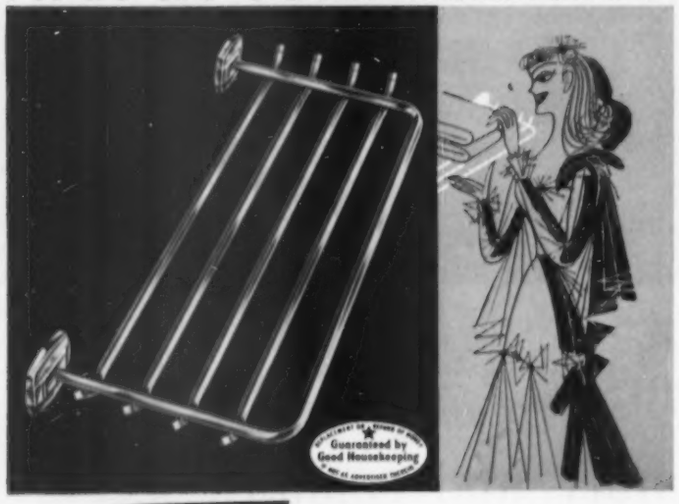
Write National LP-Gas Council, Dept. BHG-3, 185 North Wabash Ave., Chicago 1, Illinois

LOOK FOR THIS SEAL—THEN BUY WITH CONFIDENCE!

first in convenience!



Fairfield

AMERICA'S FIRST CHOICE IN BATHWARES – Now with revolutionary, patented ARMORIZED•CHROME-12•! Scratch-proof, rust-proof . . . built-in durability for a lifetime of gleaming beauty. Only FAIRFIELD ACCESSORIES give you so much for so little. Insist on FAIRFIELD ACCESSORIES at your favorite store!
•TRADE MARKS © 1957 THE AUTOYRE COMPANY, CHICAGO 1, ILL. *A Subsidiary of Ekco Products Company*

How to break the college jam-up

Continued from page 44

cilities. Recently a major automobile company offered 210 acres of land and $6,500,000 to establish a branch of the University of Michigan at Dearborn. During the academic year 1955-56, bequests and gifts to 50 leading colleges totaled $206,007,000—an increase of 47.3 over the previous year.

This high level of giving shows clearly that American industry recognizes the importance of our educational resources and the need for strengthening them. Apropos of this, Dr. J. Paul Mather, president of the University of Massachusetts, offers a dramatic prediction as to how industry will eventually collaborate with colleges to meet the ever-expanding needs and challenges of higher education. Says Doctor Mather:

"I believe industry will 'loan' teachers at *full* industrial rates of pay for part-time and full-time instruction. Labs and equipment will also be donated and loaned. Industry will also assist in establishing two-year community colleges in the actual community locations of plants and facilities, some of which are 'down' or not in operation at night. These colleges can be quasi-public and still succeed."

Doctor Mather practices what he predicts. This fall his university is pioneering just such a school in Pittsfield, Massachusetts, in cooperation with a leading electric appliance manufacturer.

As stated earlier in this article, the price of a college diploma is wreaking havoc with the average family budget. For example, today it costs about $2,500 a year to send your son to an Ivy League or Eastern men's college. About $2,800 will barely cover expenses for your daughter at a women's college in the East. The smaller coeducational colleges run about $1,900 yearly; at Midwestern and Western universities, the cost is between $1,200 and $1,500.

This presents a major problem: How do you pay for this? Most colleges require payment of all fees in two lump sums—usually September and January. Unless you have set up a long-range program for financing your children's education (life insurance, trust, savings account, government bonds, investments) these expenses will probably have to be met out of current income.

For families suffering from tight-money troubles, there are rays of sunshine. Instead of requiring students to pay tuition bills in one or two lumps during the school year, some colleges now permit students to spread payments over a period of several months.

Parents whose youngsters are enrolled at a college where such an installment plan is not available are offered a financial lifeline by The Tuition Plan, Inc. More than 100 colleges in 38 states have an arrangement with The Tuition Plan (347 Fifth Avenue, New York 16, New York) which is literally a "charge account" in education. The plan, a pay-as-you-learn financing service, covers any fees listed in the college catalog. The cost is 4 percent for a one-year plan, 5 percent for a two-year contract, and 6 percent for three- and four-year contracts. Life insurance for parents is included at no extra cost. Currently more than 20,000 families subscribe to this plan, and the number is snowballing every month.

Also a blessing for cash-strapped parents is the fact that two-thirds of our colleges now lend money to their students, at extremely low rates of interest. At the Massachusetts Institute of Technology, for example, a needy student can borrow up to $3,300. He may repay this with as little as $100 a year for 33 years. And interest, which does not begin until after graduation, is a mere one percent.

Probably the brightest silver lining in the diploma race is America's booming scholarship program. Every year, approximately 200,000 scholarships are made available to college-bound youths. Last year, $35,000,000 worth of scholarships were awarded to students by colleges and universities. And business firms, service organizations, churches, foundations, charitable institutions, and farm and labor groups granted scholarships valued at about $25,000,000.

The amazing thing about these scholarships is that many of them go begging. Because most boys and girls are simply unaware of this $60,000,000 treasure chest, every year about 12 percent of these scholarships remain unclaimed. Research at some schools such as the University of Illinois, Colorado College, and Tulane University has shown that from a quarter to a third of their available scholarships were not used each year.

Thousands of scholarships are offered by corporations. To qualify for one of these, a student must sometimes be a son or daughter or relative of an employee.

But most other industrial scholarships are open to all students. Probably the biggest program is that of the National Merit Scholarship Corporation. Financed by gifts from the Ford Foundation and the Carnegie Corporation, this program matches dollar for dollar, scholarships contributed by business and industry. The National Merit Scholarship Corporation also conducts tests in thousands of high schools throughout the country each year to find youngsters who are best equipped to profit from a college education. (*Better Homes & Gardens*, May, 1957, page 18.)

[*Turn to page 213*

Gossamer soft and petal pink—the dream of a negligee cascading in a froth of French lace and silk chiffon. Specially designed for Scott, it matches to perfection the luxury of Soft-Weve—Scott's superb "facial quality" 2-ply bath tissue. Five exquisite Soft-Weve colors for your bath or powder room.

Probably the most noticed luxury in your home...

Soft-Weve® *by* Scott

Revolving Shelves, Magnetic Door, Big New Roll-Out Freezer

Fits flat against wall or square into a corner. Available in Mix-or-Match colors—and white. With right- or left-hand doors.

in the new "Straight-Line" General Electric Refrigerator-Freezers

THIS SMART new General Electric Refrigerator-Freezer with its trim new "Straight-Line" look was designed for beauty—and convenience.

Not a hinge or handle protrudes to mar its smooth, straight lines. Sides, top and back are all *flat and straight.* That's why you can set it flush against the wall in line with your other appliances or square into a corner. You can make it a "built-in" simply by hanging wall cabinets around it.

And General Electric's wonderful "Touch-Action" Features put all foods within easy reach in the 10-cubic-foot automatic defrost refrigerator section and in the 5-cubic-foot Roll-Out Freezer.

Magnetic Safety Door! *A touch of your toe opens the Magnetic Safety Door on the refrigerator. Since it has no latch, it helps protect children from the danger of being locked inside.*

Consider dependability, too! Today, more than 3,500,000 General Electric Refrigerators have been in use 10 years or longer. Ask your G-E dealer about his easy terms and generous trade-in allowance. Household Refrigerator Department, General Electric Company, Appliance Park, Louisville 1, Kentucky.

New "Straight-Line" Design. Refrigerator fits squarely into a corner. No dirt-collecting waste space at back, none needed at side for door clearance.

Progress Is Our Most Important Product

GENERAL ELECTRIC

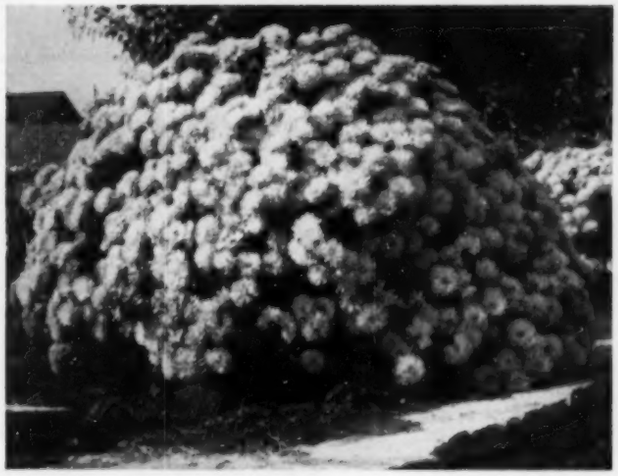
GENERAL ELECTRIC "TOUCH-ACTION" PUTS ALL FOODS AT YOUR FINGERTIPS

TOUCH . . . and the shelves revolve. All the food you want is within easy reach . . . practically *handed* to you.

TOUCH . . . and the vegetable bins revolve. Vegetables and fruits ride right out in front of you for easy choice!

TOUCH . . . and the 5-cubic-foot freezer rolls out. You see what you want at a glance! Holds up to 175 lbs. of food!

TOUCH . . . and the Magnetic Safety Door opens to the big automatic-defrost refrigerator section.



One strong chrysanthemum planted in spring will look like this in fall.

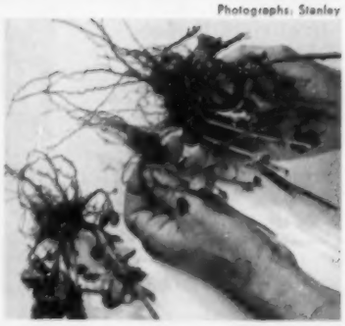
Start your fall mum show now

Dividing old clumps is first spring job

Divide your old chrysanthemum clumps at least every other year. Each old clump will give you 6 to 10 strong new divisions for planting.

Spade around clump and pry it up when new growth first appears. New divisions recover faster if moved when less than 8 inches tall.

Photographs: Stanley



Carefully shake soil off roots and pull the old clump into strong new divisions.

Each division should have a mass of fibrous roots and 3 or 4 new shoots.

Do this work in the shade, and sprinkle the divisions or cover with wet burlap to prevent unnecessary wilting.

Set new divisions about 15 inches apart, where they will get at least half a day of direct sun if possible.

To prepare the soil, spread plant food at rate given on the package, then turn over full spade depth. Trowel is good for digging planting pockets. Water immediately.

More on next page

It's wonderful for family living . . .

Light, gay colors or deep rich tones! It doesn't matter *which* you choose when the upholstery is Masland Duran. This luxurious textured vinyl is practical for family living . . . easy to clean, durable, scuff-resistant. See it on all types of furniture in leading stores. Write for folder with sample. The Masland Duraleather Company, Dept. B-6, Philadelphia 34, Pa.

TEXTURED

Masland Duran

vinyl upholstery

Elsinor group by

Kuehne Furniture

Mattoon, Illinois

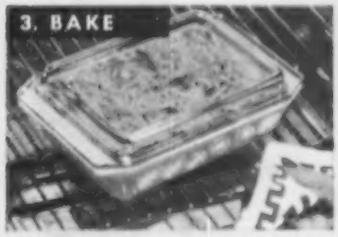
Brand-new, exciting...
PYREX®
Oven-Freezer-Server Set

Lets you prepare your favorite party dish in advance...at your leisure ...then heat and serve it in minutes!

1. PREPARE

Prepare it at your convenience, days, weeks or months ahead—any time you're in the mood. Then you'll always be ready to serve it when you want a very special dinner in a very special hurry. It's the modern method of carefree entertaining—and to add variety to everyday family meals.

Freeze and store after you've prepared dish. Put space-saving metal cover in place, seal with freezer tape and place in freezer. All the freshness, goodness and aroma are sealed inside.



Bake it when you want it, after removing freezer tape. Place PYREX cover on dish, and bake in oven. *Food frozen in* PYREX *ware can go directly from freezer to pre-heated oven.*

Serve it in style in the same smart, PYREX dish you used for preparing, freezing and baking. It's beautiful enough to go with any table setting. Store what's left in very same dish.

• **Set consists** of 2 qt. casserole, 1¼ qt. casserole, 2 aluminum lids for freezer storage, clear lid for baking and serving. (Doubles as extra baking or serving dish or tile.) Choice of turquoise, white or charcoal with snowflake pattern, or pink with daisy pattern. Complete set, $5.95. *Each space-saver casserole with individual glass cover may be bought separately. 2 qt., $3.50—1¼ qt., $2.75.*

New PYREX Cradled Decorator Casserole

• **A great companion piece** to the Oven-Freezer-Server Set. Comes in smart yellow with charcoal flower decoration. Beautiful brass cradle. 1½ qt. size, $3.95—2½ qt. size $4.95.

There's only one PYREX Ware, a product of CORNING GLASS WORKS, Corning, N. Y.
VISIT THE CORNING GLASS CENTER, CORNING, N. Y. CORNING MEANS RESEARCH IN GLASS

Fall mum show

Begins on preceding page

Starting new cuttings is early summer job

When your mums are 12 to 15 inches tall, take cuttings 4 to 6 inches long. Strip the leaves off the lower third of stem and root in vermiculite or clean, sharp sand.

Keep cuttings on a sunny window sill until they root. Cover pot and cuttings with plastic bag to reduce wilting the first week or so.

Cuttings will form roots in about 4 weeks. When they do, you can plant them directly outside or pot them up.

To pot, use soil mixed with one-third sand. Set pots in a shady place outdoors, and keep a close check on water requirements.

If you plant directly into the border, give cuttings a light shade the first few days.

When you plant mums grown from cuttings, prepare soil as for divisions. Water the new plants liberally the first few weeks after planting.

Mums grow swiftly and will bloom the first fall. When they are about 8 inches tall, pinch out growing tip. Do this sometime before the last week of August or not at all.

Summer care governs quality of flowers

For best results, feed mums at least twice during growing season: once soon after growth starts in spring, and again in midsummer.

You can use any balanced plant food, liquid or dry. But don't use more than recommended on package.

Cultivate or mulch to keep weeds under control.

Mums will take hot weather without trouble if you give them enough water.

Soak deeply. Mum roots go down a foot or more. If you want flower-show quality, an inch of water each week will be necessary.

To control pests: Dust or spray with a multipurpose pesticide — the same one you use to protect your roses.

Copyright 1957 by The Seven-Up Company

Get 'em together often this summer for a cool SEVEN-UP "FLOAT"!

No Stirring is what appeals to me!

With Rev Satin Jelled Latex you just . . . open the can and start painting! That's because it's *homogenized!*

Less Dipping is what I like!

Jelled Rev Satin can be loaded on brush or roller . . . so you spend less time dipping, more time painting. It can't run or drip like liquid paint.

Jelled and homogenized Rev Satin has all the latex advantages and adds new ones. It's perfect for every room in your home—including kitchen and bathroom.

If You're an Alkyd Fan . . .

If you prefer an alkyd type paint for interior wall surfaces and woodwork, you can enjoy the no stirring . . . less dipping features in Jelled Magic alkyd. A flat and semi-gloss finish available in colors to match Rev Satin Latex.

A-M PAINTS

. . . Revelations in Progress through Modern Research

American-Marietta Company, 101 East Ontario Street, Chicago 11, Illinois

A-M Paint Divisions include: BERRY BROTHERS, Detroit & Walkerville, Ont.
MARIETTA PAINT & COLOR CO., Marietta, O., & High Point, N.C.
SEWALL PAINT & VARNISH CO., Kansas City & Dallas • O.P.W. PAINTS, Ottawa, Ont.

It's NEWS to me!®

Golf-ball washer fits on your caddie cart—gives the elusive rascals a scrubbing while you wend your way about the course. Three or four golf balls, a pinch of detergent, water, and a revolving cup do the job. Power is supplied by your golf-cart wheel which causes balls to rotate in suds against a stationary brush. Of spun aluminum, washer fastens to any make of golf cart. Easy to install, and fully adjustable. Washer cup removes when it is not being used.

Walk 'N Wash, $7.95, in stores, or ppd. from mfr. Rene-Craft Products, 120 E. Railroad Ave., Wilmette 4, Ill.

Midget grinder is specially sized to prepare food for Baby. It processes small portions of cooked fruits, meats, or vegetables . . . thereby making it possible for the youngster to enjoy fresh food from the family board. You may, if you wish, feed Baby directly from the grinding cup, which is made of unbreakable molded nylon. It's easy to wash and sterilize.

Happy Baby Food Grinder, $4.95, in stores or from mfr. Bowland-Jacobs Mfg. Co., Spring Valley, Ill.

Casual and practical, this kitchen chair-ladder combination has numerous uses—you just name it. Weighs only 13 pounds, folds for easy storing. It has padded, upholstered top step with a wire back. Choice of light bronze frame with top step upholstered in brown, yellow—or red or black frame with top step in yellow or charcoal tweed. Lower step is charcoal gray, skidproof tread.

Kitchen-Kasualaire Chair, $9.95, in stores. The Durham Manufacturing Corp., Muncie, Ind.

Fabric news reads like a fairy tale these days. Newest is a cotton that can be tossed in the automatic dryer for tumble drying, and emerge in a crisp, ready-to-wear condition; no ironing is needed! There's no need to drip-dry, either . . . the dizzying whirl of the dryer seems to have no effect on the fresh finish of this top-quality cotton. Look for it in youngsters' clothing and apparel for yourself—as well as in shirts for men and boys.

Twin Wonder Cotton is manufactured by Dan River Mills, Inc., Danville, Va.

Knife-sharpening stick has natural maple stick, in which is set carborundum stone. Wood blocks provide correct angle to assure keen sharpening. News also lies in its small size and easy accessibility; when not in use, stick hangs from the wall or fits in a drawer.

Sharp Stik is $1.95, in stores. Robeson Cutlery Co., Perry, N.Y.

More News on page 55

Keep meat fresh days longer without freezing

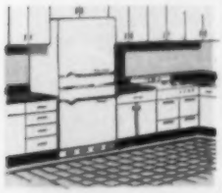
in the new PHILCO® Super Marketer

EXCLUSIVE "COLD FLOW" MEAT LOCKER keeps meat in a special 33-degree zone—the IDEAL temperature for fresh-meat storage

NO LONGER do you have to cook hamburger or chops—or eat cold cuts—a day or two after buying! No need for freezing either! These highly perishable meats—*all* meats, in fact—will now stay fresh *days longer*, in Philco's fabulous new "Cold Flow" Meat Locker.

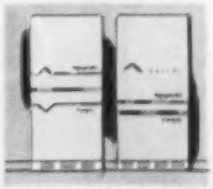
SEPARATE REFRIGERATION system, for meat only, keeps the Meat Locker in a 33-degree zone—the temperature recommended for meat by the National Live Stock and Meat Board. (Normal refrigerator temperature is 38°.) The new Philco with the "Cold Flow" Meat Locker's at your dealer's *now*. One look and *you'll* want it!

THE SPACIOUS SUPER MARKETER refrigerator-freezer combines 8.5 cu. ft. automatic defrost refrigerator with 5.1 cu. ft. freezer that's on the bottom, where it belongs. Total storage: a big 13.6 cu. ft.!

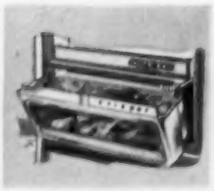


THE "BUILT-IN" LOOK costs no more; looks built in because it fits flush to cabinets. Stands alone beautifully, too. Pastels or bright white.

NEW CHEESE KEEPER keeps cheese in perfect, ready-to-eat condition. Never again dry or moldy cheese! *Philco exclusive!*



CHOOSE YOUR COLOR from Suntone, Startone or gleaming white . . . all stunning. There's a wide choice of sizes, too.



WAIST-HIGH CRISPER conveniently keeps fresh fruits and vegetables at their tasty best. Snaps open and closes quickly.

LOOK AHEAD . . .
and you'll choose
PHILCO

NOW... real china designed for America's new Carefree way of life.... for only 5.95

5-PIECE PLACE SETTING
SHOWN ABOVE: SERENE

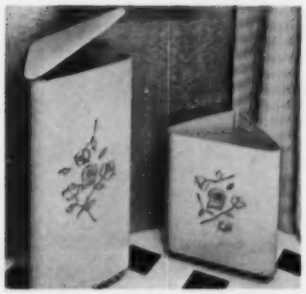
- GUARANTEED AGAINST BREAKING*
- OVEN-PROOF DISHWASHER-PROOF
- COPPER COVERED SERVING PIECES

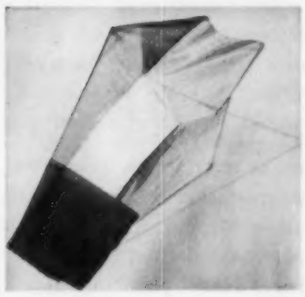
Not plastic, *not* pottery, *not* thick or heavy! Carefree is real china, translucent and delicate-looking, thinner than you ever dreamed an oven-proof china could be. So elegant for formal entertaining, so sturdy you can use it every day... even for outdoor barbecues. See Carefree, the beautiful, durable true china that pays for itself... over and over again!

Carefree
ALL-PURPOSE TRUE CHINA
BY SYRACUSE

*BE SURE TO ASK YOUR DEALER FOR GUARANTEE CARD

Send for free illustrated brochure and name of nearest dealer.
Syracuse China • Dept. CB67 • Syracuse 1 • New York





It's NEWS to me!

Begins on page 52

Bathroom accessories come into news with triangular shapes. Set, decorated with stylized rose motif, is constructed of composition board and wood. It fits snugly into corners. Hamper measures 24 inches tall; wastebasket, 12 inches. Comes in white, pink, or turquoise.

Bathroom Space Saver Set is $10, in stores. Contemporary Products, 3 East 26th St., Paterson, N. J.

Drip-proof. New vacuum bottle has a pitcherlike spout which keeps liquid from spilling while it's being poured. Also notable: the flexible stopper with a tab for easy removal, shock absorbers at top and bottom. Glamorous color combinations are yellow and gray with violet, or red and orange with gray.

Universal Pour-Easy Vacuum Bottle, $1.98 for pint size, $2.79 for quart size, in stores. Landers, Frary & Clark, New Britain, Conn.

Panoramic mirror for your boat gives you clear view to the rear and both sides—an angle of 170 degrees. A safety device well worth having—particularly if you tow water skiers or aquaplaners in your wake. The mirror swivels easily and is made of heavy-duty metal that is chrome plated.

Ski-Vu Safety Mirror is $7.95, in marine stores. Ski-Vu Mirror Company, 726 Rossmor Building, St. Paul 1, Minn.

A fast way to pit your cherries! Pit entire quart in just minutes. Simply place the cherries in a feeding trough and give crank a turn. Cherries, neatly pitted, drop out other end. The pits fall into a separate container. Device is of nonbreakable plastic; red or white.

Hoover Cherry Pitter, $3.25, ppd. from mfr., G & H Industries, Dept. BH, 1615 Lakeway Ave., Kalamazoo, Mich.

Kite flying hits happy high with the introduction of "Space Kite," high flier structurally rigged to make for the clouds in a hurry. Although it's a newcomer to the kids, former models were used in U. S. weather research. Kite is made of acetate cloth, in bright colors of red, yellow, and blue. Has 250-ft. kite cord, plastic carrying case.

Space Kite, $2.98 (35-inch model), ppd., Halco Co., Dept. P58, 165 Dwight St., New Haven 2, Conn.

Flexible address book should last a lifetime, because it never becomes obsolete. It employs stiff paper slips that insert in slotted pages. When Uncle Herman moves or Aunt Jane gets married, tab can be deleted and a new correct one substituted. Each tab has space for name, address, and telephone number. The book holds up to 168 movable address tabs with special sections for Christmas card lists, birthdays, and anniversaries. The cover is simulated leather.

Movable Address Book is $5.25, ppd. from mfr., 100 extra tabs for $1. Widder Associates, 110 5th Ave., New York, N.Y.

More News on page 57

TOMORROW MINDED

All the wonders of the tomorrow you're planning may be lost, if you do not protect them—by making sure your home ...your car...your treasured belongings...have tomorrow-minded *protection!* You'll get it, *at a saving*—from your Central agent or broker, the insurance man who plans with your tomorrow in mind.

There are more than 4,500 tomorrow-minded Central agents and brokers throughout the U. S. and Canada. For the name of your nearest Central man, look in the Yellow Pages or write Central Mutual Insurance Company, Van Wert 2, Ohio.

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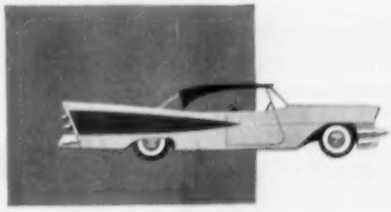

'Just see what we get for $5.98 a week*"

"It's hard to believe, but this glamorous bathtub, lavatory and toilet cost only $5.98 a week.* When we found that out, we knew we had to have American-Standard fixtures in both bathrooms. You see, they give us American-Standard quality at no extra cost."

"This space-saving lavatory is perfect for a powder room or for any bathroom where space is limited. It comes in lovely colors and white."

"Jim says our AMERICAN-Standard bathrooms cost less than he expected—and aren't they beautiful!"

"The boys' bathroom fixtures cost only $2.62 a week*... but economy isn't the only reason we insisted on American-Standard bathroom fixtures. Jim says they're the best ... says they'll last a lifetime. I love their smart, modern lines, their lovely colors.

"Look at the corner tub in our bathroom. It has a big, roomy bathing area, yet fits into a 4x4-foot space. Both tubs are of sturdy cast iron ... the lavatories and toilets are of genuine china that's ever so easy to keep sparkling clean. And you should see the faucets in our bathroom. They're monogrammed ... that's right, they have our initials. Isn't that a smart touch?"

A second bathroom is a must in most homes these days. You will find it easy to find the right space-saving American-Standard fixtures for an extra bathroom at your American-Standard retailer's — ask him about easy payment terms. He's listed in your phone book's Yellow Pages under "plumbing supplies" or "plumbing fixtures." Or mail the coupon below for helpful booklet. AMERICAN-STANDARD PLUMBING & HEATING DIVISION, 40 West 40th St., New York 18, N. Y.

*PLUS INSTALLATION

American-Standard, Dept. PB-67, 38 West 38th Street, New York 18, N. Y.

Please send me your booklet, PLANNING FOR BETTER BATHROOMS. Enclosed is 10¢ in coin to cover handling.

I am building ☐ I am modernizing ☐

PLEASE PRINT

NAME _____

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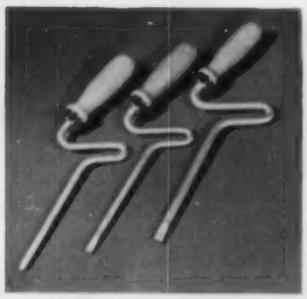
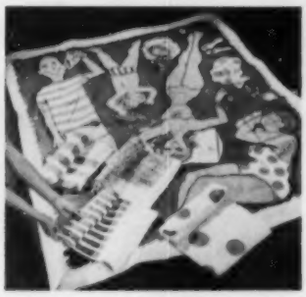
See American-Standard products on NBC-TV's program HOME, starring Arlene Francis.

AMERICAN-Standard

PLUMBING AND HEATING DIVISION

AMERICAN-Standard PRODUCTS





It's NEWS to me!

Continued from page 55

Screwdriver with a different shape is specially designed so that the tip cannot slip. It holds the screw as you turn—lets go when you stop. The no-slip feature is designed to avoid surface scratches and gouged wood.

Fast Action Tru Driver, regular- or Phillips-type tip (standard), $1.25; regular tip (heavy duty), $1.35. Set of three, $3.75, ppd. from Texas Buyer's Service, Box 241, Mexia, Tex.

Family fun. Cotton beach spread has Mom, Pop, Sis, Junior basking on sand-shunning fabric. Towels are individually designed so each member can have his own—with no question about its owner. Spread measures 64x76 inches. Plastic carrying case is included.

Beach Party Spread Ensemble is $14.95, in stores. Fieldcrest Mills, 88 Worth St., New York 13, N.Y.

Plastic banjo for the small-fry has a special chord-playing attachment. Buttons on the player are marked with the numbers of various chords. Just press the button, strum the chord. More ambitious youngsters can dispense with the attachment, form their chords from scratch. A songbook provides banjo backgrounds for 25 songs.

Golden Banjo, $7, in stores. Emenee Industries, Inc., 200 Fifth Ave., New York 10, N.Y.

Pattern marker provides quick, easy way to transfer markings from pattern tissue to fabric. Lightweight plastic gadget has a chalk-sharpening feature. As handles are pressed together, revolving chalk comes in contact with special sharpener. Curved arms make it possible to roll or fold fabric and pattern tissue between marker when working several inches from edge of fabric.

Kwik Tack is $1.98, in stores. Berwalt Co., Inc., 812 Huron Rd., Cleveland 15, Ohio.

Versatile eating set sees a child through baby, toddler, and kindergarten years. Silverplated set has small-bowl, long-handle spoon for infant feeding; a baby-size spoon and fork; knife, fork, and spoon for preschool, kindergarten crew. Patterns available are Lilac Time, Enchantment, and Proposal.

Campbell Kid Wee Folks Set, $5.75, in stores. Oneida Ltd., Silversmiths, Oneida, N.Y.

Unbreakable baster is specially curved and extra long, so that you can wield it with less danger of burned fingers or scalds. It has a metal tube and soft, durable plastic bulb. Wide opening prevents clogging, soaks up gravies faster, bastes a larger area.

Baster with Safety Curve, 79c, in stores. Wecolite Co., 552 W. 53rd St., New York 19, N.Y.

For other new and interesting products, see Shopping by Mail items on page 222

Kitchen chores are easy when your sink has a new American-Standard mixing faucet and disposer

American-Standard sinks have long been famous for their lifetime cast iron construction . . . thick, fused-on coating of acid-resisting enamel . . . deep, roomy compartments. Now, two new time and work-saving features are available with these sinks. The first is . . .

NEW MIXING FAUCET that blends hot and cold water to exact temperature wanted, switches from full force to a trickle at the flick of a finger. Illustration shows how easily this new, dripless, single lever faucet works.

NEW GARBAGE DISPOSER grinds even tough solids, flushes all messy garbage down the drain. This new American-Standard disposer has a continuous feed operation . . . self-cleaning, stainless-steel grinding chamber . . . powerful, lifetime lubricating motor. It is easy and inexpensive to install . . . quiet in operation.

For more information see your American-Standard retailer listed in the Yellow Pages of your phone book under "plumbing supplies" or write American-Standard, Plumbing & Heating Division, 40 West 40th Street, New York 17, N. Y.

American-Standard

PLUMBING AND HEATING DIVISION

=

What a Peanut Butter! So nourishing a sandwich equals a square meal!

Comes in exclusive goblets and sherbets in "Early American" design. Also in the handy refrigerator jar.

BIG Top

It's naturally fortified!

NUTRITIONISTS AGREE: One Big Top sandwich has as much basic nourishment—proteins, fats, carbohydrates, food energy—as this meal of chicken leg, rice, beets.

Of course we aren't proposing that you *replace* all hot meals with Big Top sandwiches. But at lunch or snack time, it's wonderful to know: Big Top is naturally fortified *—a powerhouse of nourishment.* 1½ ounces of Big Top between two slices of bread has as much basic food value as the meal above, with normal portions shown. All this, *plus* important vitamins and minerals.

No other peanut butter packs this essential nourishment and Big Top's extra golden-good flavor. So serve sandwiches of creamy, easy-spreading Big Top with milk and fresh fruit—a perfect snack!

"What's for lunch?" ask your lambs
And they're happy to see
Creamy, golden-good BIG TOP
"Tastes great," they agree.

© W. T. Young Foods, Inc., subsidiary of Procter & Gamble

THE SLAVERY OF SEX FREEDOM

The first in a series of three articles by one of America's foremost writers on human affairs . . . Howard Whitman

This article will shock you. It will shock you into an awareness of the havoc wreaked by the advocates of Sex Freedom in the decade since World War II. Promiscuity, illegitimacy, heartbreak, misery are all that the "enlightened" era has brought us. Let's put an end to them!

A college girl in a class in Human Behavior in a fine Pennsylvania college stood up to answer a professor's question on the role of sexuality in life. "Sex is like raw meat," she said. "When you're hungry you take it."

A shocking answer?

Or are we shockproof after an era in which sex freedom has been touted as the great emancipator of a constricted mankind and morality has been seen as a confining dungeon? For 12 years, since the close of World War II, we have seen a campaign of "liberation." Men, women, and adolescents, too, were to be freed of the inhibitions of an outmoded morality. Human emotions, gagged into neurosis and on the verge of psychological suffocation, were to have air. And instead of gloom and shadows there would be light—from the sun of science by day, and by night from the stars of statistics. And so, stone by stone, the confining dungeon has been reduced.

We look around now. And we wonder.

Was that a dungeon we tore down? Or was it the house we live in?

Illegitimate births have reached an all-time high. The U. S. Public Health Service reports the latest annual total at 176,600, an increase of 36 percent in 6 years. The mothers of 40 percent of illegitimate babies are teen-agers.

Syphilis rose last year for the first time since 1948. It finally caught up with the miracle antibiotics, which were supposed to be the secret weapon of sex freedom. They were the vaunted end of venereal disease. But today the American Social Hygiene Association reports: "VD rates are rising statewide in 19 states. VD control programs are inadequate in 35 states. Teen-age VD is increasing in 11 states. New VD epidemic outbreaks are reported in 19 states."

The forecast for this year—200,000 new cases of venereal disease among teen-agers alone.

Premarital sex experience has been a virtual proving ground in the era of sex freedom. The notion of confining sex to marriage was seen as puritanical, old hat, Victorian. With what result? Today's studies indicate that close to 70 percent of our brides are not virgins, that premarital experience is twice as prevalent as it was a generation ago.

In a community near Chicago, a bride-to-be went to the doctor at her former high school for a premarital examination. When he expressed surprise that she was a virgin, and remarked that over 60 percent of the girls in the school were not, the young lady was flabbergasted. She reported the doctor's observation to her minister, who was indignant. He characterized the [*Turn to page 172*

How to color-scheme your flower arrangements

By Fae Huttenlocher

Photographs: Hopkins

WE'D BE THE LAST TO SAY that any flower is not a thing of beauty. But we *do* say you can increase its loveliness as a decorative accent in your home by:

- Planning your color scheme;
- Making your bouquets to fit the space they will fill;
- Arranging them in the style that best fits your home.

Our summer flower arrangement series will show how you can achieve these special effects, stressing color this month, space and size in July, and style in August.

Without the red screen, this iris arrangement would be merely pretty.

Note the lovely balance and natural beauty achieved by varied level placement of flowers and foliage.

←

This warm color scheme, using the tawny, monochromatic tones of yellow to orange-red, will be pleasing in a room with background and furnishings in any color *except* blue-reds, orchid-pinks, or magenta-purples. Notice that its colors are used in the correct 3-2-1 proportion.

Making a massed, Traditional arrangement is easy

Step 1. To make this arrangement, group seven yellow snapdragons, cut different lengths, at center of 4-inch needlepoint holder. Add roses at sides.

Step 2. Fill in with yellow-orange and orange-red roses and snapdragons, removing foliage from base of stems. Duplicate fill-in steps on opposite side.

More on next page

Flower color schemes

continued

Your flower arrangements can be eye-arresting decorators, if their colors, size, and style are planned to harmonize with your room

Green backgrounds, like the foliage of flowers, are pleasing foils for any color combination. Rich pink peonies set the dominant color note here, with white and blue iris used high and in lesser quantity. The blue-green book adds a sparkling contrast.

The muted, yellow tones of Chinese peony Souvenir de Maxime Cornu are given luminosity and lovely contrast by a setting of their own beautiful gray-green leaves. Diagonal markings on the bottle-like container add further interest in texture and line.

With cool green walls and golden upholstery, try red, red roses in a tall, white porcelain bud vase. The contrast is as refreshing as ice water. Cut one rose 1½ times the height of the vase; the other, ⅔ as long.

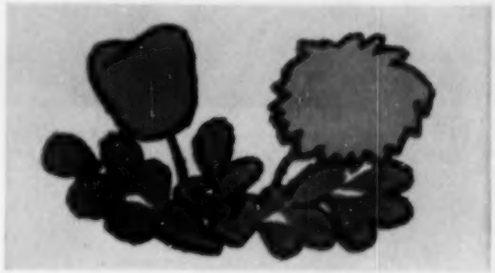
Flower colors should harmonize or complement—never "fight"—with colors in your home

The strong red and yellow contrasts of this arrangement of hemerocallis and peonies call for a neutral background such as wood tones accented with yellow and red, or white walls with old-gold rug and moss-green upholstery.

For the modern blue-white wall with black and white furnishings, use a contrasting color scheme of scarlet weigela branches and creamy yellow peonies. The heavy container balances height and spread of the flowers.

Yellow or pink-red brings life to gray-green walls.

Mass stained-glass colors against a blue background.



Red and red-orange fruit tones are good with yellow.

Wood or neutral backgrounds call for vivid contrast.

Green, in any shade, is a perfect foil for all colors.

A modern, air-conditioned streamliner rolls through Echo Canyon, Utah. If you're accustomed to spending hours wheeling a cross-country car, you may be glad to let an engineer do the work, maybe rent a car on arrival. For routing of trip in this article—and other tours—see page 192.

Big news in rail vacation travel

By W. R. Wilson

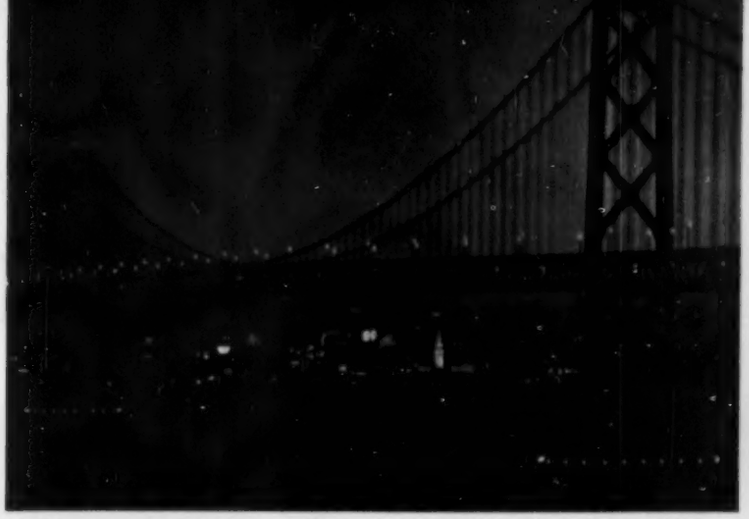
Families get top bargains in train tour fares. For less than $60 each, Mom, Dad, and children can see national parks, California, and Canada

Little more than a century ago the first passenger-carrying stagecoach left Independence, Missouri, bound for Santa Fe, New Mexico. Each coach carried 11 passengers. The hot, dusty journey required two full weeks, and the fare (one way) was $250 per passenger (including meals).

Today an entire family—father, mother, and two children (one under 12; one over)—can board an immaculate, air-conditioned streamlined train at Chicago on Monday, Tuesday, Wednesday, or Thursday, travel any combination of routes westward across the United States or Canada to the Pacific Coast *and return* for as little as $234.39 (including tax).

On today's trains you relax safely and [*Turn to page 192*

Outdoor ice skating in the summer? It happens in Sun Valley, famed year-around Idaho resort which also features outdoor swimming during the winter.



San Francisco, as it first appears to thousands of railroad travelers each year. You cross the bay by ferry from Oakland. Rent a car for a close-up tour of fascinating bay region.

College students serenade guests at lodge in Zion National Park. Busses meet trains at Lund, Utah, for travelers who plan a stopover here.

You can spend all day hiking, horseback riding, swimming, or just enjoying the beautiful surroundings. There's dancing and a variety of other entertainment for lodge guests in the evening.

Stopover days you'll never forget: from a mountain lodge you can ride horseback beside a cool stream, beneath towering shafts of pastel peaks.

Photographs: Author

Children see real Canadian "mounties" and Indians in spectacular setting of mountains and glaciers, if you route your Western trip through the Banff area.

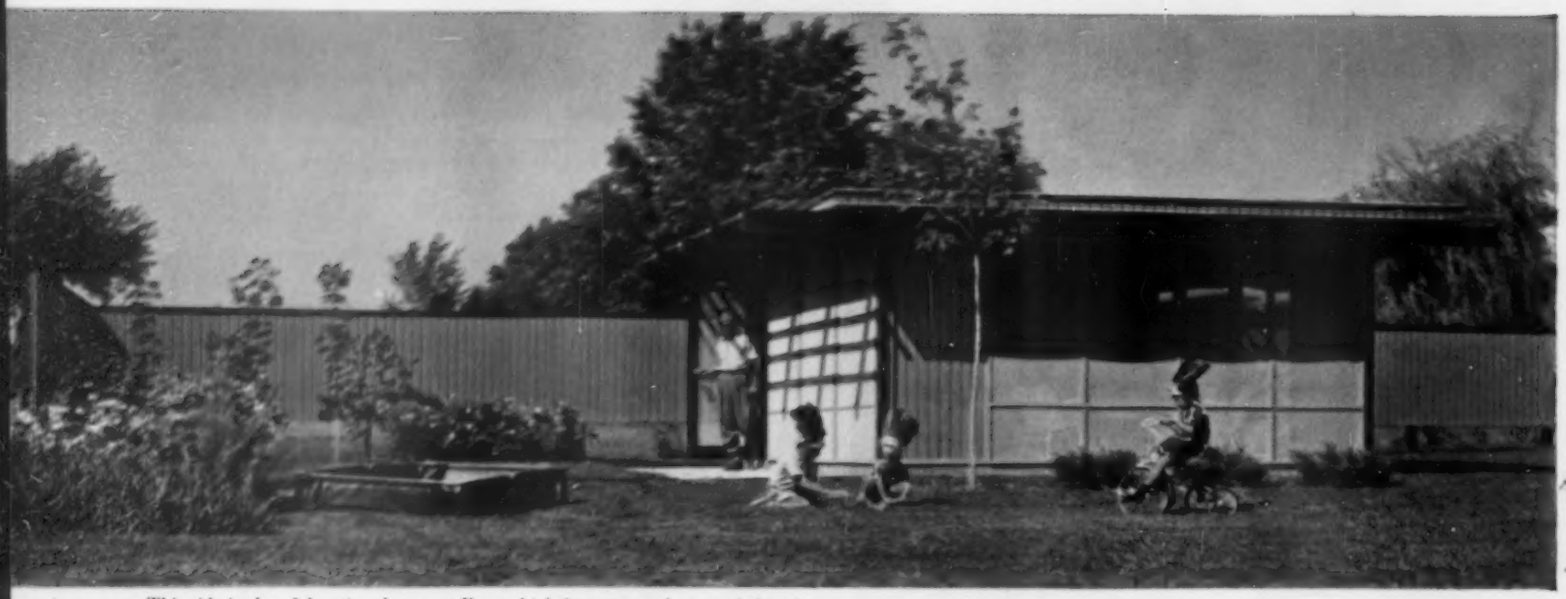
Family travel plans let you choose almost any cross-country tour for the same fare as shortest route. Canadian trains are among the finest.

←

Your restaurant travels with you when you go by train. And there's no thrill like eating your meal in speeding split-level or dome diner.

Prices are no more than you would pay at a good hotel restaurant. Many trains also have budget-price coffee and sandwich grills.

A summer house in your back yard!



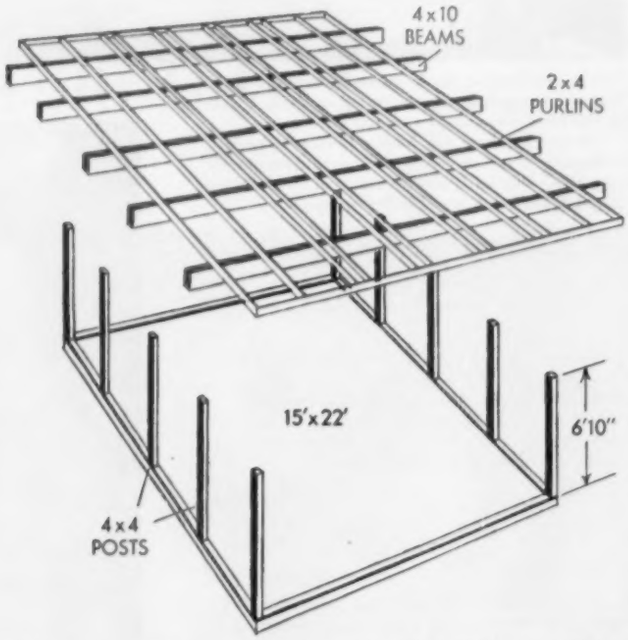
This side is cheerful patio, play area. Fence, high for privacy, has gap below for breeze. Extended beams make house seem larger for little extra cost. Sun grids cast patterned shade on screen, which is almost opaque from outside. Generous overhang has same fascia as wall, a design echo that would have been difficult with single planks. It was easy sawing strips off 4-foot, scored plywood sheets.

Build screen house as shown or attached to house. Buy complete screen house plans, $2. Write Meredith Publishing Co., Des Moines, Iowa. Request Plan S-1.

Photographs: Suter, Hedrich-Blessing; Hopkins. Designer: Alvin E. Miller

Kitchen-dining side of summer house has functional feel. Solid wall toward west blocks afternoon sun, strengthens house, provides storage and work space. Wall is fireproof cement asbestos board; grill (portable for use inside or out) is safe. For small sink, we used outside hose connection, avoided plumbing.

More photographs on page 211



Construction is solid, simple: graceful network of posts (uprights), beams (cross members), and purlins (strips across beams). Purlins add visual interest, permit 1-inch instead of costlier roof deck. Roof is built-up tar, gravel. No gutters, water drips off on gravel strip around house.

Your family vacation needn't end with return from mountains or beach. This summer house, designed and built by our editors, is a center of warm-weather fun, just steps from your back door.

Dan J. Matthews

Many of us have moaned in mock misery: "We need another vacation to rest up from the one we've just had!" And that's often true. It's a job to shut a house, cram-pack a car, and battle traffic to and from a vacation spot.

We aren't discouraging vacation trips. You need one; youngsters demand it. What this article does is describe a summer house—the best we've seen yet—and tell you how to enjoy vacation pleasures in your own back yard (and for those who need it, recover from a vacation you've finished).

Everyone who's been in this house was enthusiastic. After reading, we think you will be, too.

This is living-recreation side of summer house. Tinted concrete slab floor slopes imperceptibly toward center drain with gravel bed beneath. It's easy to move furniture, hose floor clean. Solid wall section gives definition, privacy to corner, helps bracing.

Few steps down gravel path takes you to screened-in summer house. It could join house as porch, but slight distance seems wonderfully remote. Walls are grooved face plywood.

Gay summer decorating– good the year 'round

Turn your imagination loose and try some of these spritely ideas. They all take very little time or material to do, and most are moderately priced

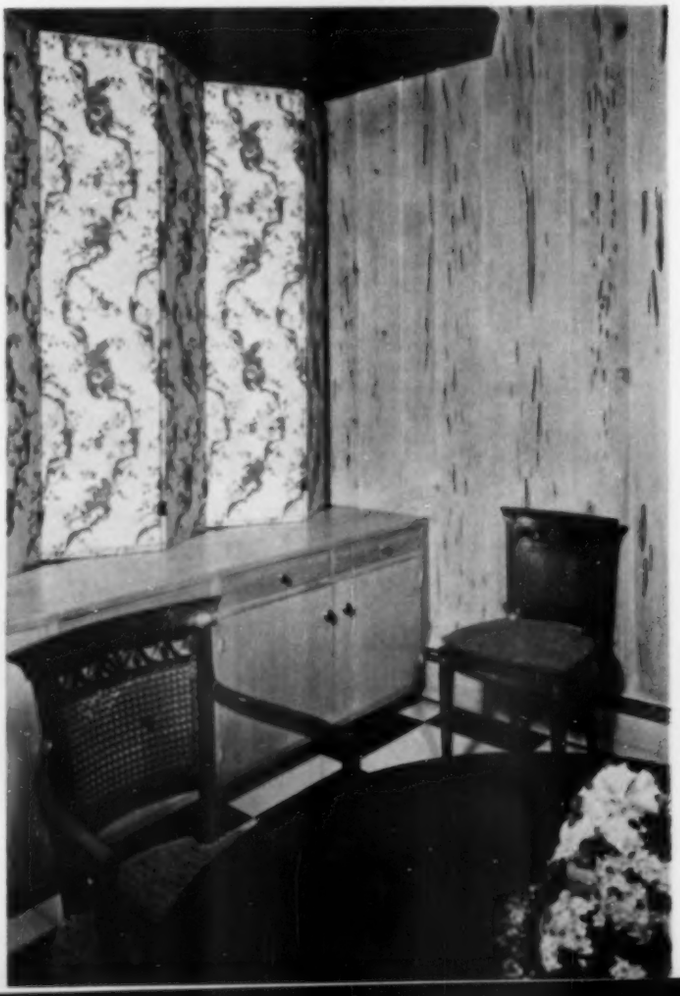
By Ruth Seefeldt

Summer guest closet—in a hurry! Foldaway bed stores in space 20 inches deep, simply partitioned with accordion doors. New, lower bed leaves hanging space above.

Photographs: Hedrich-Blessing; de Gennaro; Burgess

Diamond doors are a bright idea for any area that needs sparkle. Straight edges of design are easy to get with masking tape. Let each color dry before starting the next one.

Cool blue color-keys wood paneling, screens, chairs in a fresh, pretty scheme for any time of year. New colored stains subtly enhance wood grains, are easy to apply as any wood-toned stain. Seat cushions or screens can be covered with fabric or paper in one rainy day's time.



Low-cost luxury here takes the form of an airy-looking divider, a floor as striking as an abstract painting. Floor is linoleum scraps. Similar divider can be made of any kind or color of cord, spaced as you like it.

Streamlined closet makes laundry sorting more fun. Shelves are colored and sized to fit towels and sheets. Each family member could have a shelf in his own color.

Colorful cushions accent an open corner of a room. Make cushions with washable, zip-off covers so you can tote them to the beach or terrace, too. Later on they'll be handy for the overflow crowd in front of the TV set.

Refresher course for summer furniture—a coat of paint, new cushion covers. Unmatched pieces take on a coordinated look. Color like turquoise gives lift to room that's cool for summer, pleasant all seasons.

Credits for decorating ideas on page 191

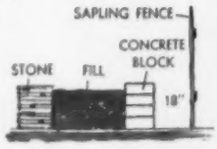
It's a great idea– raised garden beds

There's no kneeling—no stooping—yet you get better display for your flowers when you raise your planting beds to a comfortable sitting height

Photographs: Warren Reynolds. Owner: Eric Douglas

See how raised planting beds, bordering a corner pool and a paved center, create a livable open air room in this new Denver garden. Along the stone wall there's seating for sizable parties.

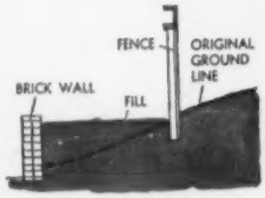
Rear of the planting bed is supported by wall of concrete blocks. Between this and boundary fence an 18-inch path and planting space permit easy tending of flowers and training of vines.



Photograph: Burns. Owner: Oliver M. Willard

Where original ground line is a slope, you get extra value from it as a privacy screen and a wind screen for your flowers, if you have the bottom of fence level with planting bed.

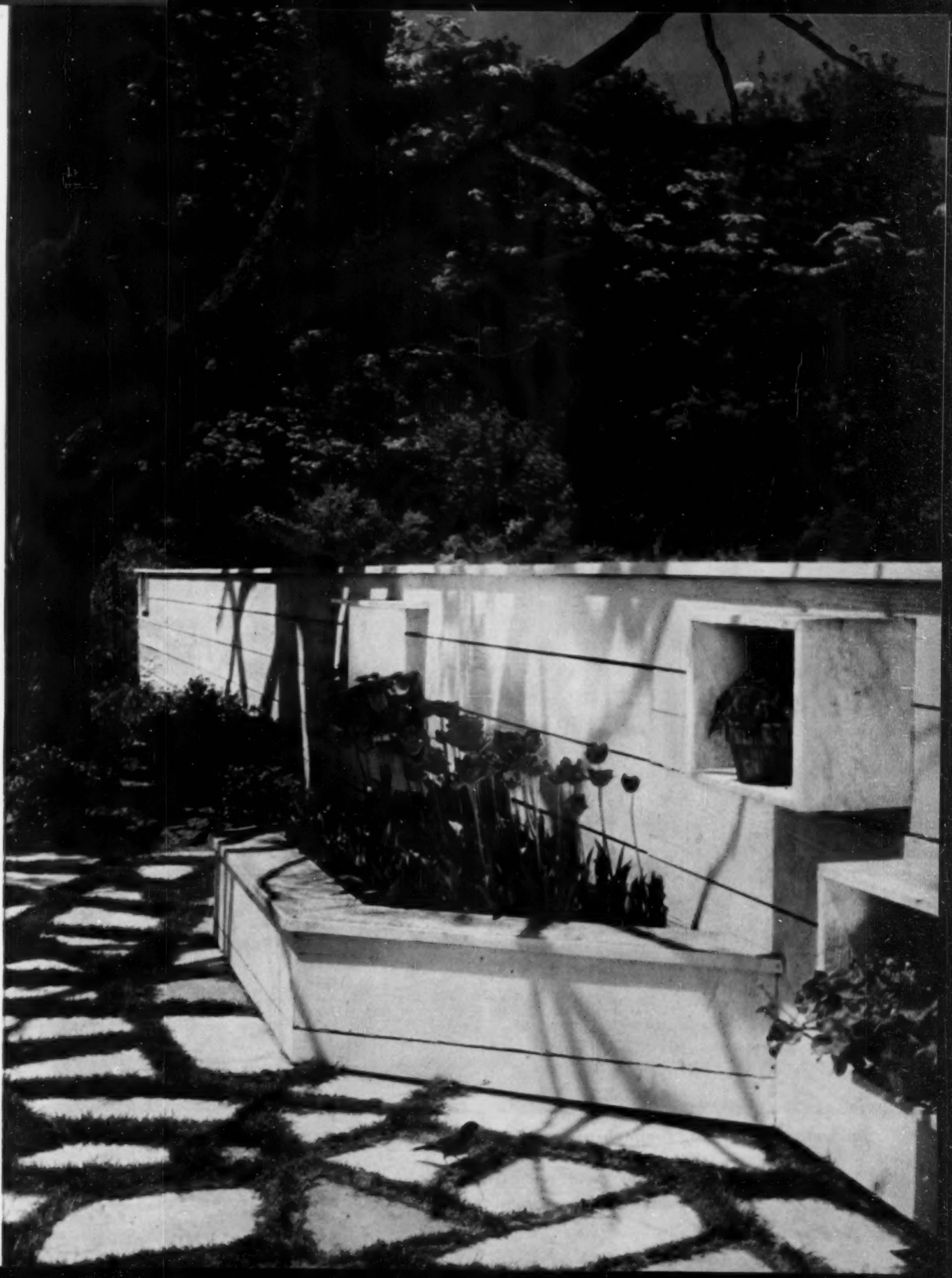
Weathered brick laid with deeply raked mortar joints forms a good-looking and serviceable wall. To have plants at base, set them when bricks of the walk are laid on a sand base.



A plain fence takes on interesting dimensions and you gain a convenient garden seat when you add boxed shelves for your potted plants, and frame an elevated planting bed like this. Everybody likes it—even the robin (he's real!).

To avoid rot, leakage, and water stains, line box with metal; use wood preservative where wood touches soil.

Photograph: de Gennaro. Landscape Designer: Wm. H. Ehlen, Jr. Owner: Henry P. Wolf



Photographs: Long Island Press, Courtesey Art News

Buckminster Fuller, a "comprehensive designer," puts his theories into model form

At one time or another (and sometimes all at once), Richard Buckminster Fuller has been a philosopher, engineer, scientist, and inventor. Now, this 20th Century idea man has designed one of the most unusual structures since man first took shelter: the geodesic dome. Fuller also holds the only patent for a map projection, called the air-ocean world map (displayed on wall, right). Map, in use by global air strategists, overcomes most distortion. Cut along its triangular and square lines, this air-age map folds to form a globe.

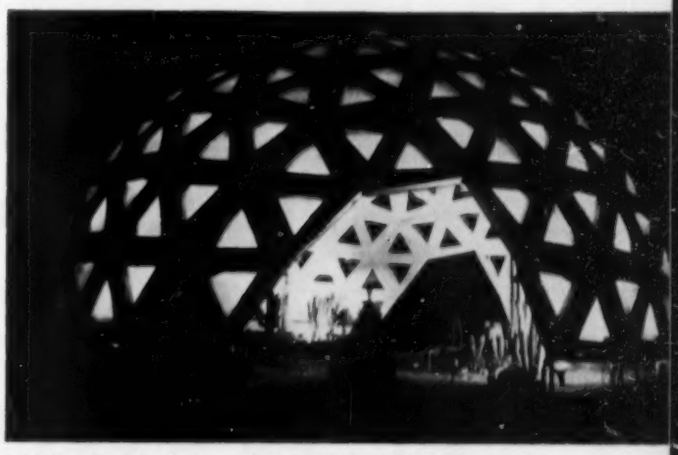
What do you know about the GEODESIC DOME?

It is structurally simple, made up of standardized parts, has no limitations to size and use, and may be the least-expensive structure yet! Its designer predicts that with the geodesic dome we'll be seeing mile-wide enclosures rise in a week, buildings roll from printing presses . . . in short, a major revolution in the way we cover space

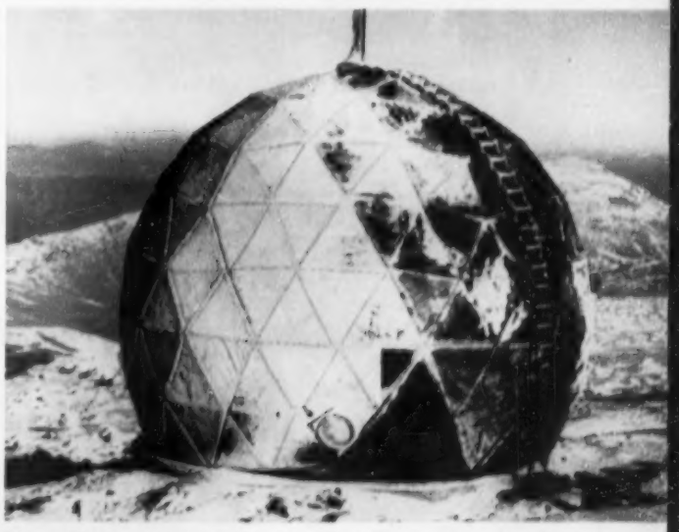
By Ken Olson and Al Miller

A single American DC-4 slipped into Kabul, Afghanistan, on the last leg of a 7,500 mile hop from Durham, North Carolina. Aboard was one American engineer, a brace of 40-foot scaffold towers, a cargo of 3-inch aluminum tubes and discs shaped like hubs of an automobile, plus a plastic-coated nylon "skin" bundled and packaged, parachute fashion.

It was the first American appearance at an Afghan international trade fair. While pavilions for displays of other nations had been under construction for five months, a handful of unskilled Afghanian workers, led by the one engineer, erected the American pavilion in 48 hours! The exhibitors, trade fair officials, and 200,000 Afghanians who attended that event in the summer of 1956 witnessed another in a series of remarkable demonstrations using Buckminster Fuller's geodesic dome. [*Turn to page 194*



A 36-foot dome—all of paperboard and plastic "skin"—was Fuller's "gran premio" winner at 1954 Milan Triennale. This one houses desert plants; another was furnished as a one-room apartment. Such high-strength domes might be mass produced by the thousands.



Mount Washington all plastic radome, similar to models now in use across the arctic radar line, withstood hurricane winds for two years without showing damage. A ¾ sphere 31 feet in diameter, it contains no metal or wood parts, goes together in 24 hours.

The dome that hints of things to come. Aluminum "struts" and nylon covering of Afghanian pavilion will be seen again this year at eight trade fairs from Poznan, Poland, to Surabaya, Java, and Tokyo, Japan.

How to plan your garden for easy

GARDENING is beguiling. It tricks us into believing we have made progress when we have spent a weekend pruning, weeding, and mowing. It's true that a freshly mowed lawn gives satisfaction—but we should not mistake it for progress. We cannot fully enjoy our gardens until they give us time to sit in the shade. The goal is reasonable and possible

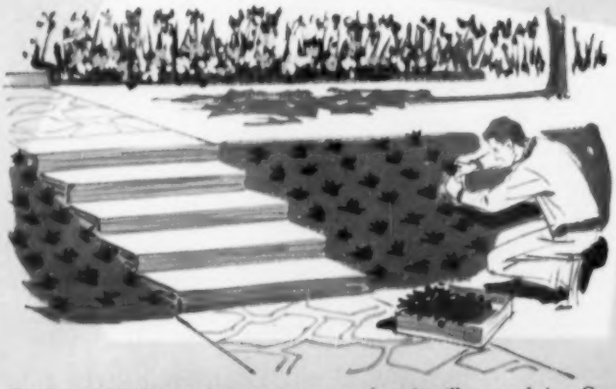
Flowers: group high-maintenance flowers together to cut down on upkeep time

Keep bulbs, perennials, and annuals grouped together. Don't string them out — this lessens visual impact and increases time needed for grooming. Good place for high-maintenance plots: near outdoor living area.

Substitute mulching for cultivation and you'll cut hoeing time in half. For front-and-center areas, use attractive ground corncobs or peat. For back of the yard spots, choose cheaper straw, hay, grass clippings, leaves.

Lawn areas: use mowing strips to save hand-trimming, plant groundcovers on trouble spots, and keep

Mowing strips are a permanent way of eliminating hand-trimming. They keep water in place, and make a garden look well groomed all seasons. Use them between lawn and flower beds, wherever grass meets cultivated soil.



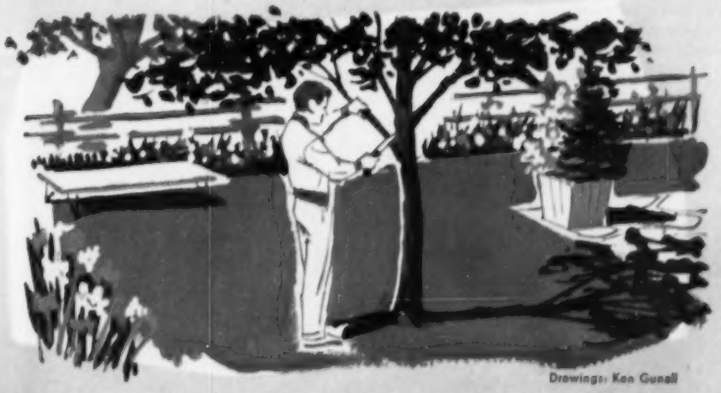
Don't spend time trying to grow grass where it will never thrive. Convert such areas to groundcovers, plants better adapted to shade and slopes than grass. Groundcovers take more time first year, but save time later.

maintenance

Start now to eliminate time-consuming jobs

- Do you have enough perennials in your flower border to supply repeat color each year? Plan now to add three new perennials that will bloom when your present flowers are out of season. Continue to use annuals as accents and for flexibility in color schemes, but relieve the pressure of sowing and maintenance with permanent plants.
- Do you rely entirely on cultivation to keep down weeds? Begin to convert some of the shrub and flower beds to a mulch system. Ask your nurseryman to suggest mulches for your area.
- How long since you bought a sack of plant food? You can save a lot of time by feeding shrubs and flowers regularly. Plant food helps keep plants growing vigorously and resistant to disease. Healthy plants need less care.
- Setting out new shrubs this year? Then find out how big they will eventually grow before you dig the holes. Give them enough space so they won't crowd each other or your house at the end of 10 years. You'll save pruning, trimming time.
- Looking for more space for flowers? Then keep new bed out of center of lawn. Plant annuals and perennials in front of existing shrub and flower groups, by the foundation of the house, or next to a fence. Make existing beds larger—don't add new ones until old ones are fully developed.
- Spend too much time looking for tools? Set up a storage area especially for your garden tools. Keep files, oilcans, other maintenance tools in the same area.

lawn free of unnecessary obstructions



Drawings: Ken Gunell

When deep shade increases lawn maintenance, cure may be simple. Just prune off lower limbs of trees and thin out upper branches, so more light reaches grass. Best time for such pruning is early spring. Remember: don't leave stubs.

Check your garden utilities—water, light, and power sources. They can save you a lot of work—time

Electric lights are just as cheap outside as they are inside. Take the pressure off your gardening time by extending your day with a couple of floodlights.

When you add lights, ask the electrician about the possibility of adding an exterior outlet for power tools. It may be an inexpensive convenience.

You can save steps by having a standpipe added to that side of the house where you do your intensive gardening—where you grow most of the flowers.

It's a good idea to have two sets of garden hose, too—one for front of the house, another for the back, so you don't have to drag it around.

Guy Bugess

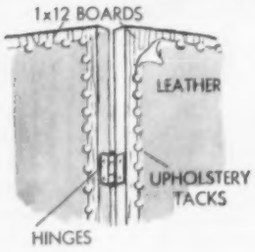
Paper collage plays up hobbies. Musical family that owns this screen has made each panel a gay picture collection of instruments, music, pages from old, pianomaker's manual, with wallpaper flower cutouts. You could transform a ready-made, inexpensive screen with menu covers or travel posters, plastic-spray it against soiling.

Weymouth

Leather is handsome decorative choice for this screen, repeats smooth texture of practical leather cushions, chair webbing. Make the screen yourself of plywood panels cut to fit between floor and ceiling, hide what's beyond.

Brass upholstery tacks, closely spaced, hold covering flat, add a luxury touch. Make your own decorative design for ends of the panels to fit board size you use. Double-acting screen hinges let screen fold either way.

If you're budget minded, alternative covers might be felt, grass cloth, or leatherlike plastic.



Hopkins

Butterflies and leaves in panels of plastic give subtle Oriental flavor that's at home in any room. Many-paneled design of the screen lends softness to corner of the room and makes an interesting background for the solid-colored furniture. Wood frame finish matches the furniture wood.

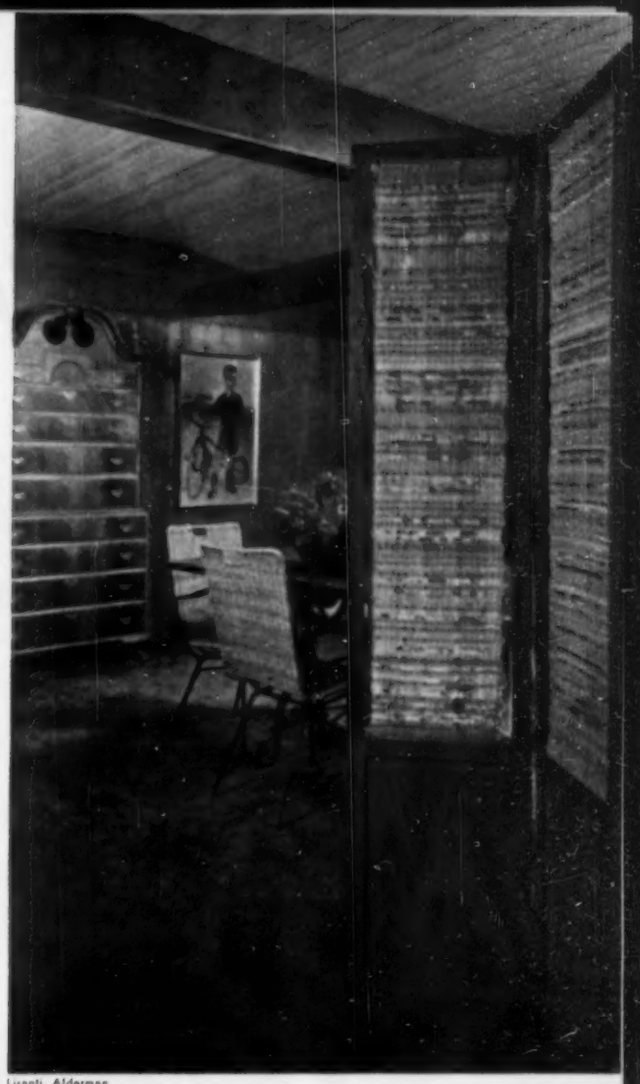
Screens can star in your decorating

By Florence Byerly

DECORATIVE SCREENS perform magic in any room. They take the limelight as handsome pattern interest and dramatic backgrounds; rate applause, too, as space dividers or pretty cover-ups. Any way you use them, they're in step with today's flexible living habits

Hedrich-Blessing

Rattan screens are a happy choice if you want to create room-divided effect and not shut off view or ventilation. Light coming through can create intriguing pattern and shadow effects. Rattan is a material that follows no particular furniture style, blends with almost every interior. It's one good example of the many handsome ready-to-use screens you can purchase if you're not a do-it-yourself fan.



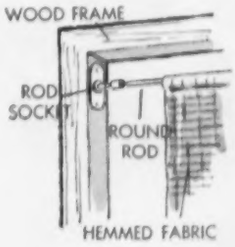
Lisanti, Alderman

Textured fabrics give screens color and surface interest that make them blend happily with your other furnishings. Weaving enthusiasts will discover this is a marvelous way to display their handiwork. Repeat colors in rest of the room.

Warren Reynolds

It's easy to hang the fabric in the wooden screen. Hem it at the sides if necessary, then top and bottom, deep enough to let a round, brass curtain rod pass through.

The rods fit into sockets set inside the wooden frame.



New use for shoji screens they've become cupboard doors! Regular, large storage cabinets would look too heavy in this small room. Fluorescent tubes behind doors cast a soft glow through them that gives light airy look to the end of room.

You buy the right size screen first, then build cupboard to fit behind, deep as you like.

The shelves are adjustable, deep enough to hold complete dinner service. Tall pieces fit on the top shelf.

Other credits on page 191

Quick effects with potted plants

Lisanti, Alderman

Weymouth

Quick color in shade is yours if you suspend tuberous begonias of the hanging type like this from tree limbs or outer edge of porch roof. The showy fragile flowers are in full view, are easily watered, safe from most mishaps.

Photographs: de Gennaro

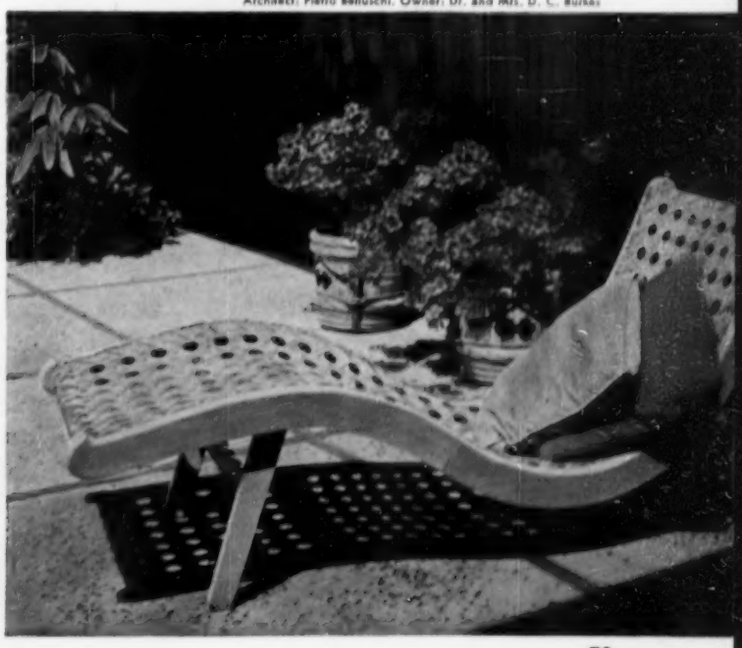
One man can move heavy potted plants by using a long folded strip of canvas or burlap. Rock pot to edge the cloth under it. Pull steadily, don't yank.

WHEN YOU HAVE your plants in large pots, tubs, and boxes, you can bring full-grown plants to the spots where you want them in a matter of minutes. It's a quick, practical sort of magic that works the very first time you try it

By Fleeta Brownell Woodroffe

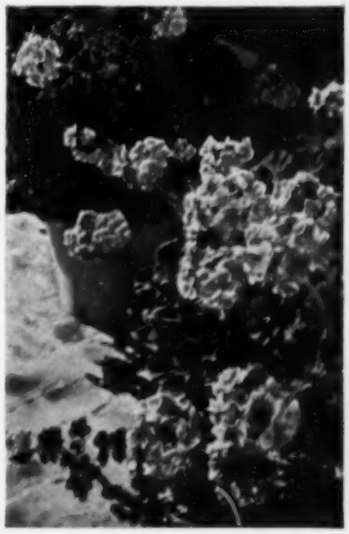
You can enjoy color of dwarf azaleas in partial shade for several weeks if you plant their balled and burlapped roots temporarily in sizable containers. Use hydrangeas for later color.

Architect: Pietro Belluschi. Owner: Dr. and Mrs. D. C. Burkes



A king-size pot of geraniums can be made by grouping five tall plants from 4-inch pots.

Turn tops outward, avoid crisscrossing branches. Variety Mrs. E. G. Hill is shown.



←

White Bouquet, on cover, is of same group—floribunda—as this new Rose Orange Mist.

For this effect, three No. 1 plants were set in each large pot; given sun, water, food.

Picture at right best explains what was done. Wing at right (yellow on plan) is the remodeled nursery—now bedrooms. Other wing has living, dining, ends in screen porch (blue on plan).

Porch, open on three sides, inexpensively adds length and importance. Wide chimney, thin fascia aid long, low look.

T-shape plan gives zoning that surpasses even a tri-level house. It's an obvious result for this remodeling and could be used equally well with a new house.

Kitchen and entry (arrow) are apex—accessible from all other areas: utility (red), living (blue), sleeping (yellow).

BEFORE: Here's old nursery Lucases used to see. It sat on some of town's prettiest property. Their ingenuity, work made this an appealing home.

AFTER: Choice elms and oaks, that made property worth while, seem always able to catch a breeze. Re-done house fits site perfectly. Inset where garage-utility wing (red on plan) joins entry and living area (blue) is miniature terrace where Lucases relax while working out front.

Using this door, they bypass living area when coming in from gardening or lawn mowing. Gray paint subordinates less-important wing.

New house or old house?

Photographs: Warren Reynolds. Architect: Harold Spitznagle, A.I.A. Owner-Designer: James R. Lucas

Today's vine-covered cottage has up-to-date design, decoration. Planting pocket is modern translation of window box — more varied, easier to handle. By midsummer, trellised vines will frame kitchen window, in a manner remindful of shutters.

This is both! ***They got property they wanted buying an old house, teaming it with a new plan for wonderful results***

Jim and Eileen Lucas used to drive through beautiful countryside just outside Sioux Falls, South Dakota, where Jim is a designer. Their favorite route was a winding lane through bottom land of the Big Sioux River. Trees here are tall and thick, and pheasants run around like chickens.

At a bend of this road, an old out-of-business nursery—picture on opposite page—sat falling into disrepair. A thicket of native and commercial plants grew up around it.

The Lucases could see the exciting potential of this old building and property. They bargained and bought, then working together shaped it into the lovely picture of today.

Technically, it's a remodeling (old nursery building became bedroom wing). But plan, design, and imaginative features make it a model for the house you might build.

More on page 184

de Gennaro

Dad's ready with the Whopper-burgers! Open a toasted bun to catch yours. Some supper!

Step 1. Each Whopper-burger boasts two meat patties with filling sandwiched between (recipe gives details). Portion out ground beef in an even number of patties — use a ⅓-cup measure to make them same size.

Place each mound of meat between waxed paper and press down with pancake turner and fingers till patty is a little less than ½ inch thick and about 4 inches across. Be sure to press *gently* to keep burgers light and airy.

Step 2. Spread half the patties with prepared mustard, leaving margin for sealing. Top with pickle relish and cheese cubes or with thin slice onion and round of smoky cheese. Add meat "lids" and seal. Dash with salt and pepper.

Broil slowly over the coals about 10 minutes to a side or till done to *your* liking. In picture above, Dad is using a kanteki (Oriental-style) grill. It's copper-toned aluminum, almost feather light for toting to park or yard.

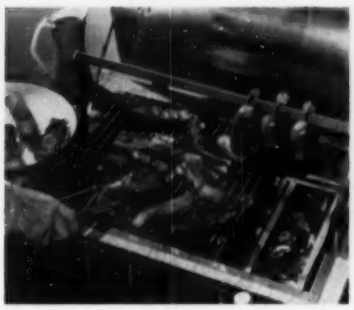
16 barbecues that cost less than steak

BIG PITCH: downright delicious flavor at a bargain. You build flavor "character" with marinades and sauces, with woodsy smoke from hickory. Some meats need long cooking, others tendering, so plan ahead. Nothing against steak, but these barbecues are real humdingers—find out for yourself

By Myrna Johnston and Foods Staff

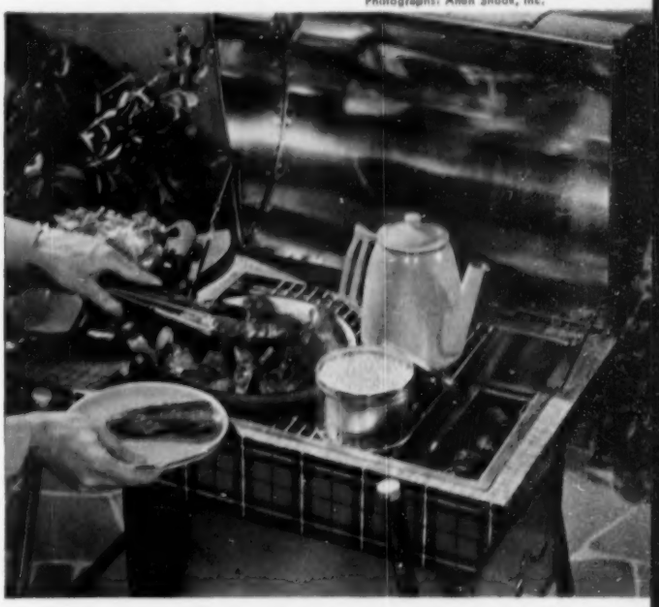
Photographs: Allen Snook, Inc.

Barbecued Lamb Riblets—smoky and saucy



First brown lamb riblets—either put damp hickory on coals and *slowly* brown on grill, or lower lid of smoker and let brown half hour. Now transfer riblets to skillet; add barbecue sauce; cover and cook.

While meat bubbles lazily till tender, offer sausage appetizers—slice and serve on crackers. Here fat sausages (precooked) heat on hooks over little firebox. (Can smoke-cook chicken or meat on hooks, too.)



Serve Barbecued Lamb Riblets with Hobo Rice—it's steamed fluffy in a coffee can at side of grill. Toss a big, crisp salad. Dessert? Juicy watermelon wedges and campfire coffee. Note the gay, plaid smoke cooker can be used with hood or as open grill.

Recipes start on page 140

Silver-plated Pot Roast. Come 'n get it, folks!

Select an economy pot roast—ours is a blade bone. Brown it nicely on both sides over the charcoal. For that good smoke flavor, toss the dampened hickory chunks, chips, discs, or sawdust on the fire.

Use heavy-duty foil or double thickness of regular. Spoon barbecue sauce in center of foil, top with the browned steak, sliced vegetables, and more sauce. Seal foil to make a *tight* package. Cook on grill top.

Million-dollar flavor from a budget cut of meat—that's Silver-plated Pot Roast! Serve with Foil-grilled Green Beans and Roasting Ears—melted butter waits in red covered cup. Adjustable grill has windshield. Steak knives match chef's tools.

More on next page

Lift the smoker lid, and there you see Hawaiian Short Ribs lazily broiling to a luscious turn

Here the short ribs of beef are ready to marinate 2 or 3 hours in mixture of pineapple syrup, honey, and soy sauce.

To cut down on cooking time, we first treated the ribs with meat tenderizer—about half an hour did the trick. Now after marinating, ribs go over the coals.

After a 2-hour cook in covered barbecue kettle, ribs are beautifully glazed, fork tender. It's time to grill the pineapple slices, toast the bread.

This copper-toned barbecue kettle has dandy heat control with dampers in both cover and bottom of kettle.

Long-armed tongs help chef serve delicious, mild, subtly sweet Hawaiian Short Ribs. Butter disappears into peas and carrots keeping hot on grill. Last minute, brush toasted long loaf with butter, top with cheese triangles and give them a stripe of paprika; now down with smoker lid to melt cheese.

Photographs: Allen Snook, Inc.

You don't have to be Mr. Moneybags to entertain the crowd. Serve Hickory Brisket Slices. Wonderful!

A 4-pound beef brisket, smoke-cooked, will make *delicious*, husky sandwiches for 8 to 10 neighbors.

Little bucket holds dampened hickory to scatter over coals—the beef brisket hickory-barbecues all the way, about 4 hours. You can do this day ahead.

When brisket is tender, slice *very* thin—slicing machine does neat job. Line up slices in foilware pan; pour sauce over. Let smoke-cook 1 hour or longer.

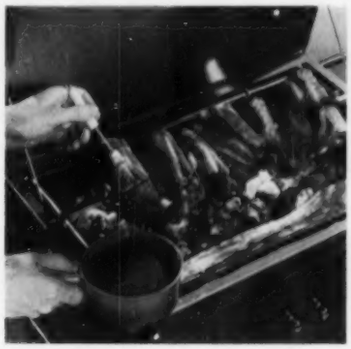
If you grill-bake a casserole of Quick Smoked Beans at same time, they'll take on that good hickory flavor.

What a feast! Hickory Brisket Slices with Quick Smoked Beans, crisp coleslaw, rounds of hot brown bread (open can and heat on grill)—or for sandwiches, offer rye slices. For dessert, cantaloupe sundaes and coffee, of course. Portable charcoal range in picture can be fitted with an electric rotisserie.

Can't duplicate the rich flavor of Barbecued Ribs, Island Style, cooked in your own back yard

Let spareribs (or the meatier, more expensive loin-back ribs) stand overnight in sweet-sour sauce. Then, with holding fork tightened on spit, lace on slabs of ribs.

Push second holding fork into last of ribs. Fasten thumbscrew and tighten with pliers. Now "let 'er roll" over the coals.



Motorized rotisserie turns ribs while they cook. Brush them frequently with the sauce to give handsome glaze. Keep heat very gentle because sauce contains orange marmalade and browns easily.

When ribs are done, the meat will leave the bones without a struggle.

Pass your plate for Barbecued Ribs, Island Style. Dad's snipping 'em in servings with kitchen scissors. And help yourself from the relish stand—more barbecue sauce, carrot and celery sticks, glossy ripe olives. In skillet are butter-browned canned potatoes with sprinkle of paprika and green onion.

Recipes start on page 140

Skewer cooking is plenty of fun—just ask the kids! And nothing's tastier than Lamb Kabobs

Here's a barbecue that's quick to get ready, fast cooking, too. String cubes of shoulder lamb on skewers, alternating the meat with squares of green pepper.

Leave a fraction of "elbowroom" between the pieces, so heat can reach all surfaces of the meat and cooking will be even.

Place the Lamb Kabobs over coals—motor turns skewers automatically. Brush meat occasionally with barbecue sauce.

When meat is nearly done, broil vegetables—give each kind its own skewer so you can remove from heat at right time. Tomatoes cook in a jiffy—keep an eye on them.

Dad scoots Lamb Kabobs off skewers onto warm platter. Vegetables were brushed with butter before broiling—tomatoes are at left, then new potatoes in jackets (precooked), then onions (precooked, dashed with paprika). Garlic-buttered rolls, with a generous sprinkling of parsley, keep toasty on warming shelf.

More on next page

Budgeteer Steak—good as all outdoors! It's subtly seasoned with garlic and vinegar-oil dressing

These are shoulder steaks. Stud them with garlic cloves—the easy way is to insert tip of paring knife in meat and push garlic in as you remove the blade.

Sprinkle steaks with seasoned salt, dash with pepper. Pour the vinegar-oil dressing over meat and refrigerate overnight.

Next day your barbecue takes only about half an hour over coals. Toss on hickory, close smoker hood for woodsy flavor.

Notice new slant-grill—you can cook at different distances from heat at the same time. Crank it to the tilt you want. As meat broils, fat runs down into drip pan.

Dad's carving Budgeteer Steak. Like yours rare? Put in your bid for a cut of the first one—second steak, still on the grill, will be for folks who vote for "medium." Go-withs: little French loaves, cozy in foil, chilly potato salad and tomato rounds, relishes, refreshing cantaloupe wedges and grapes.

Photographs: Allen Snook, Inc.

Mock Filet of Beef—rotisserie turns it round and round till cooked to juicy perfection

This pennywise cut of beef is an eye-of-round steak—new in most markets, so if you don't see it, ask your meatman.

Since this is a "less tender" cut, use meat tenderizer and let steak stand about half an hour. Now you're ready to mount the steak on the rotisserie spit.

Fasten meat with holding forks and tie on spit with cord. Insert meat thermometer in steak to tell you doneness story.

If you prefer, you can broil the steak directly on the grill top without using a rotisserie. For rare steak, broil about 20 to 25 minutes on each side.

While Mock Filet of Beef cooks, daub it with barbecue sauce. After 1½ hours on electric rotisserie, meat will be completely tender, crusty outside, deliciously rare inside. Cut meat across the grain in thin slices. A 3-pound steak makes 8 servings; broil a pair of them on same spit for the crowd.

Photographed in patio of the Frank P. Webbers, Glendale, California, by de Gennaro. Accessories by Fae Huttenlocher

Dad and his little cowpoke tend the Chuck-wagon Stew and Cowboy Potatoes on the barbecue cart. Mother and Sister pop corn over the brazier to go with tomato-juice appetizers. On picnic table: crisp slaw with tomato slices, basket of hot onion rolls. Watermelon and steaming coffee stand by.

What a wonderful, lazy afternoon—sunshine and breezes—and Chuck-wagon Stew a-bubbling. Invite the neighbors

Recipes start on page 140

For stew, cross-cut slices of beef shank make a dandy choice. You can shorten the cooking with meat tenderizer—sprinkle it evenly on all sides of the meat, following the label directions for amount.

Poke long-tined fork into meat—all sides—1-inch intervals; let stand 30 to 40 minutes at room temperature. Now you can even broil the shank slices as "steaks" if you wish! See on grill above.

More pictures on page 142

THE STOCK YARD INN

Famous foods FROM famous places

Little Dutch-shoe Potatoes are Chef Neesen's pride. The recipe lets you in on all the secrets of fashioning them. They're carved from partially cooked Idaho potatoes and then French-fried to crisp, golden-brown perfection.

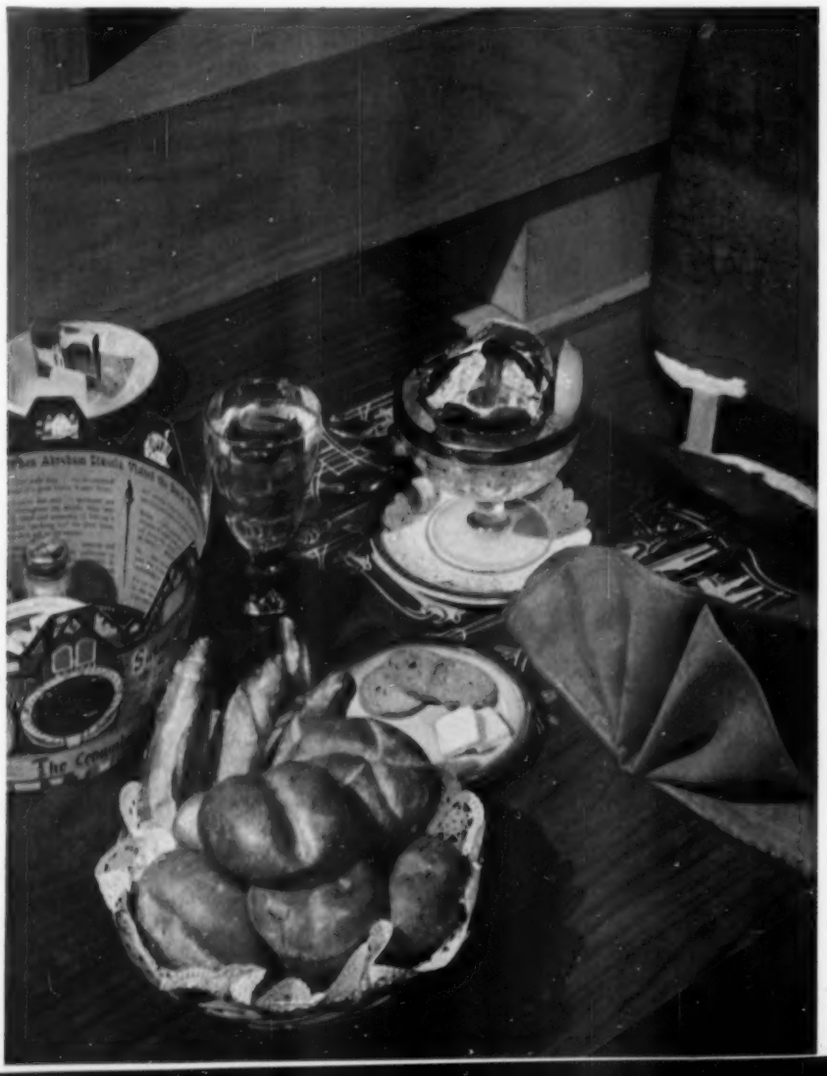
He fills them with buttered new peas, serves with husky beef slices and tomato. Fix Dutch "shoes" for a fun luncheon.

Welcome to the Stock Yard Inn at the edge of Chicago's hustling, bustling Union Stock Yards. And welcome to recipes and chef's tips we bring you from the Inn's three famous restaurants—the Sirloin, Matador, and Postillion Rooms.

"Beef" and "broiling" are the big words here. Founded in 1912 to accommodate cattle kings of the West who came to Chicago on business, the now world-renowned Stock Yard Inn keeps two fulltime butchers busy cutting meat for its diners. All beef is carefully aged four [*Turn to page 132*

Roast beef at the Matador Room—that's the specialty here, along with Spanish Rice and limestone-lettuce salad with Stock Yard Inn Special Dressing—its curry flavor accents beef.

The chef roasts the beef s-l-o-w-l-y, so it is tender and juicy when it comes to the table. Water cress is the trim.



Cold, Marinated Beef Slices—the appetizer specialty of the Sirloin Room. Superlative eating! Cooked sirloin roast is cut in julienne strips, chilled in sour cream seasoned to a chef's taste. Garnish: pimiento and green-pepper strips, glossy ripe olive, lemon wedge.

See napkin folded in horn-of-plenty style. Guests may wear colorful paper crowns (left) to celebrate the knighting of Sir Loin!

Mixed grill at the Postillion Room. For a he-man brunch these broil together: double lamb chops—girdled with bacon—sausage links, chicken livers, tomato slices. Men, you can do same at home!

The chef uses toast points to give the chops a boost on the plate and to pick up good meat juice.

At the Sirloin Room is the "steak throne" where Chef Neesen displays the steaks in all their grandeur, each on a silver platter kept *cold* on chipped ice. Brand the one you'd like to have come back to you sizzling from the grill. See the sirloin-steak pictures below.

Pfftt! This time it's the "running W" brand, mark of the King Ranch. This is Prime beef as indicated by the perfect marbling of fat throughout the meat.

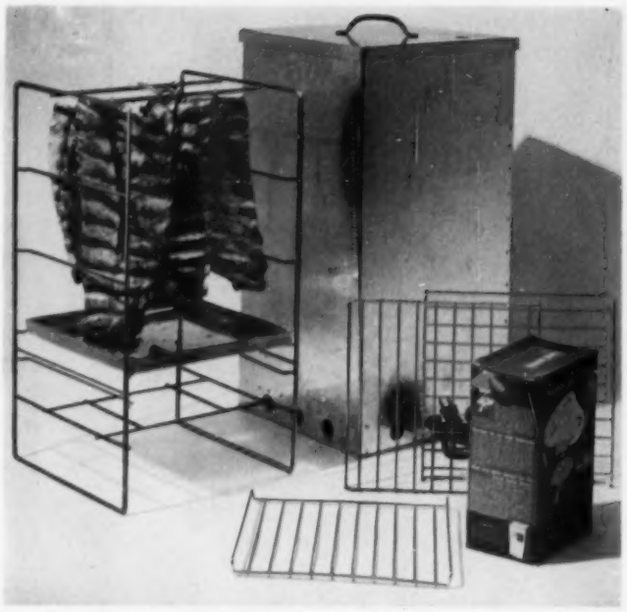
Photographs: Suter, Hedrich-Blessing

Chef carves sirloin steak. With knife tip, loosen meat from bone. Starting at wide end, cut slanting slices. Hold knife at angle so as to cut against the grain.

Planked steak, Sirloin Room style. It's a beauty—perfectly browned, juicy, tender as they come! To dress up the plank, pipe Duchess Potatoes around steak, forming loops to hold garden peas and carrots.

Fill in remaining spaces with French-fried onion rings, grilled tomato half, fluffs of parsley.

New barbecue gear to spark your outdoor meals



Electric smoker gives ribs, chicken, hams, other meats delicious hickory flavor. Container at bottom (not shown) holds hickory-chip sawdust. Wire rack fits into smoker. Use outdoors or in kitchen if you have a ventilator.

Ribs hang from hooks. To smoke other meats, slide three wire "shelves" in place. Fill and lower rack into smoker. Drip pan catches grease. Smoker operates at 150- to 200-degree temperature, is 12x12x23 inches.

Battery-operated "bellows" at left is new way to hurry up coals. Just hang it on edge of grill, point blower nozzle down where needed.

At back is sealed, dustproof package of fire starter and charcoal briquets. Light bottom of box; box lights charcoal. No mess! Fire's right for steaks in about 20 minutes. Electric fire starter at right tucks under charcoal to ignite it. The "circle" covers a wide area.

Coffee for a crowd is simple with this giant electric automatic *percolator*. Just fill with cold water, add coffee to basket, plug into electric outlet.

You can brew 30, 40, or 50 cups of coffee with same perfection. Spout makes serving easy. Light flashes when coffee's done. Heat element keeps it hot.

← Midget-size grill (11½ inches high) does big job everywhere—back yard, beach, family room. Its double grid "sandwiches" the meat so you can turn all in one flip. Grid can be set at a slant for "close-to" and "away-from" fire grilling at same time.

Triple-tine tongs at left make it easy to hold onto meat—with no drop-offs.

Photographs: Hopkins

← Plaid oval grill (19x14 inches) has room for a feast of burgers and toasting buns. It boasts red, black, and yellow plaid coat. Handle and detachable legs make it easy to tote grill with you on your auto trips. Porcelainized fire pan lifts out for cleaning.

Hammered copper canisters are styled to look like → old-fashion milk pails. They also may go outdoors as barbecue accessories for relishes, barbecue sauces, hot soups, stews, or baked beans. You need not worry about breaking—they'll take rough treatment.

More on page 107

Soup for a group — outdoors

—poured hot from a pot into mugs

While the barbecue browns and sizzles, try this:

Pass around mugs of appetizing soup—Campbell's Tomato Soup! Pour it from a camp-size pot kept hot on the back of the grill.

If ever a soup suited outdoor appetites, this is it! There's the tang of tomatoes, ripened in the sun! There's that taste no other soup has ever matched. A red-ripe tomato flavor! Smooth—refreshing—sipping-good!

Why not make it a fun summer custom at your house—while dinner waits? Have Campbell's Soup from your soup pot—with plenty for all!

SOUPS SUPPLY BASIC NUTRITIONAL NEEDS: Vitamins, Minerals and Liquids—for general well-being • Proteins—for upkeep and growth • Carbohydrates—for energy

Once a day... every day... SOUP!

NEW IMPROVED GOLDEN-LIGHT MAZOLA® OIL

...now 3 ways better than ever!

Mazola won't smoke or burn even up to 440°F. This means clean, smoke-free frying you just can't get with solid shortenings. Crisp golden-fried foods look so good...taste even better.

No fresher oil available! Protected by a new process, golden-light Mazola is a superior salad oil for all homemade dressings. Here's lightness you can see...freshness you can taste!

Lighter, more delicate flavor. New, improved Mazola is the best liquid shortening for all baking. Look for Mazola in the clear glass bottle...see the golden-light quality of this pure corn oil.

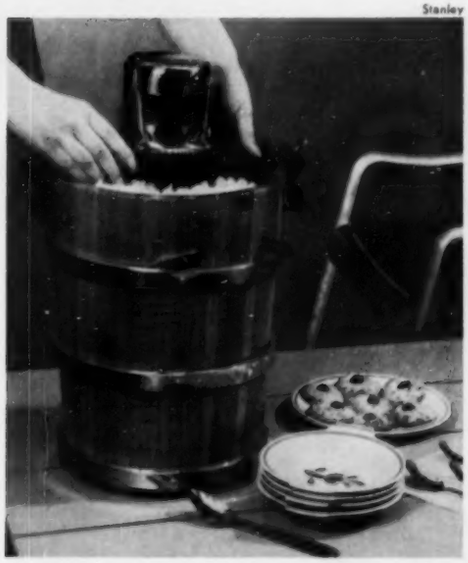
Mazola

PURE GOLDEN CORN OIL

Homemade ice cream—

Delicious! Try our recipes

Stanley



Stunning copper and oak bucket makes back-yard ice-cream picnics of yesteryear come to life again. There's no cranking because freezer is electric. It makes 4 quarts smooth, old-fashioned ice cream. The copper bands are specially treated so as to resist salt-brine corrosion.

Don't miss the fun of making ice cream this summer. Get out your ice-cream freezer and gather the family round to kibitz and slick off the dasher. Or let your refrigerator or home freezer do the work for you. You'll find many convenient mixes and bases at your market to help you make velvety smooth ice creams and sherbets.

For a luscious dessert on a torrid day, try one of the delightful ice cream or sherbet recipes that follow. You can be sure you'll make a hit with everyone.

Electric ice-cream freezer means no armwork for you. Just plug in cord and, 10 to 20 minutes later, ice cream is frozen. Convenient electric freezer comes in 1-quart size. Tub is plastic.

Photographs: Photography, Inc.

You can hand over to an electric mixer the job of turning the dasher with this easy-to-use attachment. It takes only 8 to 10 minutes to freeze 2 quarts of ice cream or sherbet.

Recipes on page 96

THE DEVIL WITH COOKING

Deviled Ham Salad Sandwich
. . . your lazy-day lunch!

Recipe for Underwood's light, yet satisfying, Deviled Ham Salad Sandwich: Spread Underwood Deviled Ham on a slice of your favorite bread . . . circle with alternate slices of cucumbers and tomatoes on a bed of lettuce leaves . . . top with a slice of cucumber . . . add a dollop of mayonnaise and serve. Quick, easy, and so delicious . . . thanks to the unique flavor of Underwood's fine ham and natural seasonings.

THE SECRET OF WHOLE-HAM FLAVOR

Underwood is made from whole hams, chosen for quality, perfectly cured, and blended with a secret formula of spices. Result: all the goodness of whole hams . . . plus a delicious, can't-be-copied flavor.

NOW IN CANADA, TOO!

Strawberry Angel. Make this summery treat with Betty Crocker Angel Food Cake Mix—for a high, light, melt-in-your-mouth cake. Frost with whipped cream and lots of sliced, ripe strawberries. Heap center with more sliced strawberries.

"I guarantee a perfect* cake every time you bake

cake... after cake... after cake!"

-says Betty Crocker

General Mills

Entertaining ideas for June

by Betty Crocker

Summer's in the air! And who wants to stay indoors? Let's have dinner on the porch tonight – or on the terrace! Serve something light. A salad and tall glasses of frosty-cold tea. The big moment comes with dessert—a real summer-night special, like our Strawberry Angel.

It's the season for small hikers—and big ones, too. So be ready to pack lots of picnic baskets. Pile the hampers high with fried chicken, potato salad – and what for dessert? Our new Cake Cones . . . colorful as a carnival!

A June birthday on your list? Here's a cool idea! Instead of frosting your cake, top one layer with slightly soft ice cream and stick in candles. You can't beat cake 'n ice cream to win a youngster's heart!

Any day you want to make someone happy—bake a cake! It's no trouble, no fuss—with our quick 'n easy mixes. And your cakes taste homemade-good every time. For our mixes start with real home recipes and the same good ingredients you'd use, like Softasilk Cake Flour and high-quality shortening. Why not pick your favorite flavor – and bake a melt-in-your-mouth-tender cake right now!

Betty Crocker

PERFECT! Yes, all our Betty Crocker Mixes—Cake, Frosting, Brownie, Date Bar, Pie Crust, Answer Cake—are guaranteed to come out perfect, or send the box top to Betty Crocker, Box 200, Minneapolis, Minn., and General Mills will send your money back.

Marble Boston Cream Pie. Use Betty Crocker Marble Cake Mix for this. (No chocolate to melt, no extra bowl to wash!) Split one layer; fill with chocolate pudding.

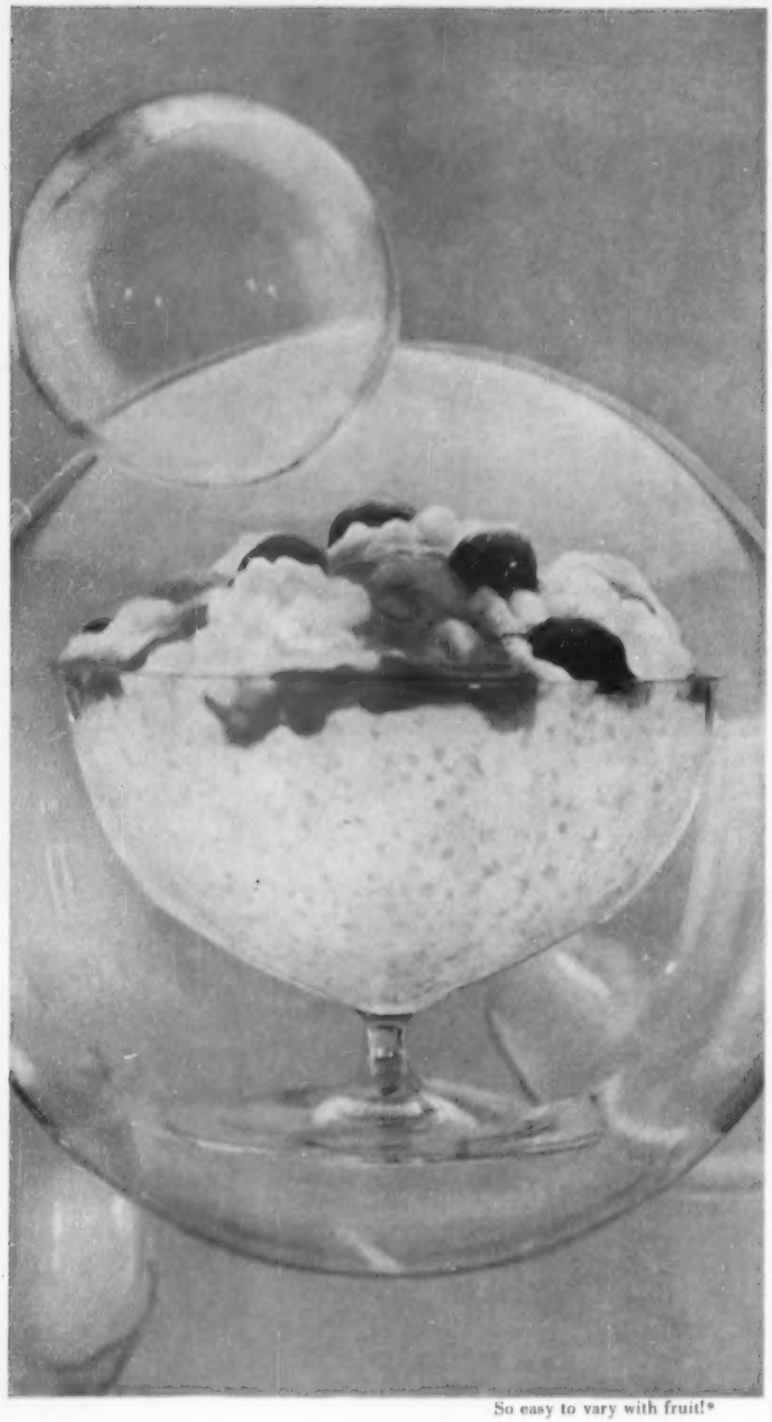
Answer Cake. New – from Betty Crocker! White Cake Mix, Chocolate Fudge Frosting Mix, baking pan – all in 1 box! Daisies are snipped marshmallow halves.

New! Li'l Angel Cake Mix. Handy half size! Bake in a loaf pan (see package). Split; fill with lemon pudding; frost with whipped cream.

Choco-Chip Birthday Pie. To White Cake batter, add 2 sq. unsweetened chocolate (2 oz.), shaved. On 1 layer spread ice cream.

Peanut Sundae Cake. Top squares of Betty Crocker Peanut Delight Cake with ice cream. Make super sauce with our Chocolate Fudge Frosting Mix. Sprinkle with peanuts.

Cake Cones. Use cupcake recipe on our Chocolate Devils Food Cake Mix package, filling flat-bottomed cones a scant ½ full. Cool; frost with our Fluffy White Frosting. Add candy.



So easy to vary with fruit!*

Light as a bubble!

So fluffy-light... no other pudding is so delightfully different! So easy to digest—never, never heavy.

So nourishing...with fresh eggs 'n milk, but not loaded with calories. Kids love it!

***So versatile**...for *Pineapple Tapioca Fluff* stir in 1 cup crushed pineapple, 2 tbsp. sugar before serving. More recipes at your grocer's.

A fine product of General Foods

TODAY'S QUICK-AND-EASY

MINUTE TAPIOCA CREAM

Homemade ice cream

Begins on page 93

Lemon-drop Ice Cream

Watch the youngsters go for this—candy and ice cream in one grand dessert!—

1 cup sugar
2 teaspoons grated lemon peel
3 tablespoons lemon juice
1 14½-ounce can (1⅔ cups) evaporated milk
4 drops yellow food coloring

• • •

½ cup crushed lemon drops

Thoroughly combine sugar, lemon peel, and juice; blend well. Stir in milk and food coloring. Pour into refrigerator tray. Freeze until firm; break in chunks and beat with an electric beater until smooth.* Fold in crushed lemon drops; return to tray. Freeze firm. Makes 4 to 6 servings.

*Or freeze till partially frozen; beat smooth with rotary beater.

Pineapple Sherbet

Buttermilk is the surprise ingredient that makes it so delicious—

½ tablespoon (½ envelope) unflavored gelatin
2 tablespoons cold water
1 cup sugar
2 cups buttermilk
1 9-ounce can (1 cup) crushed pineapple
1 teaspoon vanilla

• • •

1 stiff-beaten egg white

Soften gelatin in cold water; dissolve over hot water. Meanwhile combine sugar, buttermilk, pineapple, and vanilla; stir in gelatin mixture. Pour into refrigerator tray. Freeze until firm; break in chunks and beat with an electric beater until smooth.* Fold in egg white; return to tray. Freeze firm. Makes 4 to 6 servings.

*Or freeze till partially frozen; beat smooth with rotary beater.

Peach Ice Cream

You'll like its fresh peaches-and-cream flavor—

1 cup mashed ripe peaches
¼ cup sugar
1 tablespoon lemon juice, fresh, frozen, or canned
1 cup chilled evaporated milk
3 tablespoons water
2 to 3 drops almond extract (optional)

Blend peaches, sugar, and lemon juice. Combine milk, water, and almond extract; stir in peach mixture. Freeze in quart ice-cream freezer, using 6 parts ice to 1 part coarse salt. Remove dasher. Cover top of freezer can with several thicknesses of waxed paper; replace lid. Pack in ice and salt using 4 parts ice to 1 part salt. Allow to ripen 1 hour. Or store ice cream in refrigerator tray. Makes 6 to 8 servings.

Lime-Cherry Sherbet

A cool, green beauty, with the refreshing tang of lime juice—

1 4-ounce jar (½ cup) green maraschino cherries
3¾ cups sugar
1¼ cups lime juice
2 quarts milk
Few drops green food coloring

Drain cherries, reserving the syrup. Chop cherries. Combine sugar and lime juice; add milk gradually. Stir in cherry syrup. Add food coloring to tint a delicate green. Stir in chopped cherries. Freeze in gallon ice-cream freezer, using 3 parts ice to 1 part coarse salt. Remove dasher. Cover top of freezer can with several thicknesses of waxed paper; replace lid. Pack in ice and salt; allow to ripen 1 hour. Or store ice cream in refrigerator trays. Makes 4 quarts.

Chocolate-frost Ice Cream

Smooth and extra-rich, flecked with bits of chocolate—

2 egg yolks
2 tablespoons sugar
½ teaspoon vanilla
1 cup heavy cream, whipped
2 egg whites
1 tablespoon sugar
3 1-ounce squares semisweet chocolate, coarsely grated

Beat the egg yolks until thick and lemon-colored. Add 2 tablespoons sugar and continue beating till light and fluffy. Blend in vanilla. Fold into whipped cream. Beat egg whites until fluffy; add 1 tablespoon sugar and beat until soft peaks form. Fold into cream mixture; fold in chocolate. Pour into refrigerator tray; freeze until firm. Makes 6 servings.

Can you name these cities in Italy? →

1. Ancient ruins of the Colosseum seen in_____

2. Gondolas on the Grand Canal in romantic_____.

3. The Leaning Tower awes all visitors in_____

Win a trip to Italy via Pan American Airways

World's most experienced airline

CHEF BOY-AR-DEE® $100,000 HOLIDAY-IN-ITALY CONTEST

Trips to Italy! Nearly 1000 exciting prizes!

5 first prizes: Expense-paid tours of Italy for 5 couples! Relax for two fun-filled weeks . . . travel via luxurious Pan American Clipper . . . to historic Rome in 16 hours . . . see Florence and Naples in all their beauty . . . visit the fabulous Isle of Capri . . . explore exciting Amalfi, Sorrento, Pompeii, Taormina!

Imagine! Within weeks *you* may be winging your way to romantic Italy—as the door-to-door guest of Chef Boy-Ar-Dee!

The five top winners in Chef's big Holiday-in-Italy Contest will receive a glorious free 2-week vacation for two—plus $500 cash to spend as they please!

They'll stop at the finest hotels, dine in the grand Italian manner, enjoy the holiday of a lifetime!

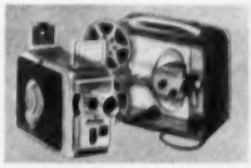
Take a holiday from cooking with CHEF BOY-AR-DEE Italian-style foods!

Easy to win! Enter today!

Look at all the other wonderful prizes! You have hundreds of chances to win—so get your pencil out now and mail your entry today!

2nd prizes: 65 modern **Caloric** 36" *White Sands* Gas Ranges . . . featuring Thermo-Set Burner and Roto-Ray-Barbequer, easiest range to clean!

3rd prizes: 20 **Gibson** Refrigerator-Freezers with outstanding new combination features. Dependable, double-duty performance!



4th prizes: 50 complete **Kodak** Home Movie Outfits, featuring the famous *BROWNIE* Movie Camera and Projector!

5th prizes: 100 **Mow-Master** Streamliner Power Mowers, famous for precision grass cutting and trimming, perfect lawn grooming.

6th prizes: 100 beautiful "Watches of Celebrities" by **Heibros** with 17 lifetime jewels, unbreakable mainspring! For men or women.

7th prizes: 75 **Evans** *Firebird* Bicycles, America's foremost Speed King plus 200 **Evans** Imperial Tricycles, super-deluxe models!

8th prizes: 350 sensational new **Sunbeam** Automatic Saucepans with exclusive Simmer-Safe Controlled-Heat cooking!

OFFICIAL CONTEST RULES

1. Fill in the name of the city in which each of the above Italian scenes is located and complete in 25 words or less the following sentence: "I like Chef Boy-Ar-Dee..... (fill in the name of product) because..... ....." Use either an official entry blank or a plain sheet of paper. Print your name and address clearly. Submit as many entries as you wish, but each entry must be accompanied by a Chef Boy-Ar-Dee label or box top or a reasonable facsimile thereof.

2. Send your entries to:
Chef Boy-Ar-Dee Holiday-in-Italy Contest
Box 36C, Mount Vernon 10, New York
Entries must be postmarked no later than July 31, 1957 and received by August 10, 1957. Your entries must be your own work, submitted in your own name.

3. Any resident of the Continental United States or Canada may enter this contest except employees (and their immediate families) of American Home Products Corp., its affiliates and their advertising agencies.

4. Entries will be judged by The Reuben H. Donnelley Corporation on: (a.) the correct location of the three pictures, (b.) the originality of thought, sincerity of expression, and appropriateness to the product described in the 25-word completion. Judges' decision will be final. Duplicate prizes will be awarded in case of ties. All entries become the property of American Home Products Corporation, and none will be returned.

5. Winners will be notified by mail or in person approximately 30 days after the close of contest. Prizes will be awarded as listed hereon. Trips must be taken before June 30, 1958. A complete list of winners will be mailed to any contestant who encloses with his entries a self-addressed, stamped envelope.

6. This contest is subject to federal, state and local laws, ordinances and regulations, and is not open to contestants in any area where state or local laws, ordinances or regulations render participation illegal.

OFFICIAL ENTRY BLANK

Mail to: Chef Boy-Ar-Dee Holiday-in-Italy Contest
Box 36C, Mount Vernon 10, New York

Write in names of cities identified above.

1.....2.....3.....

Complete this sentence in 25 words or less:

I like Chef Boy-Ar-Dee .....**(name of product)**

because.....

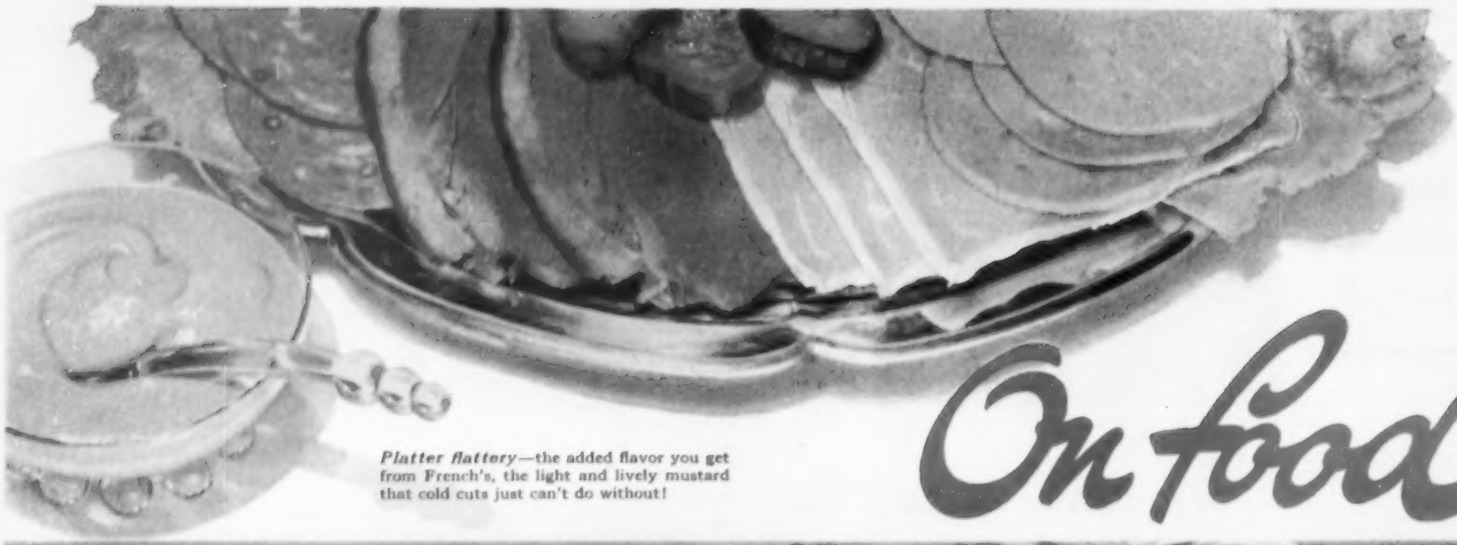
.....

Your name _____

Address _____

City _____ Zone _____ State _____

(Enclose Chef Boy-Ar-Dee label, box top or reasonable facsimile thereof)



Platter flattery—the added flavor you get from French's, the light and lively mustard that cold cuts just can't do without!

Great New Idea . . . Mustard Bread made with French's—see easy recipe below.

no other mustard has FRENCH'S Light and Lively flavor

How can a mustard be more than a mustard? When it's French's—the mustard that owes its light and lively taste to secret spices and flavorings, plus specially grown mustard seeds. Little wonder, then, that French's adds more flavor *on foods*, brings out more flavor *in foods!* And its tangy taste won't fade out in cooking. So now you know why more people buy French's than any other mustard.

MUSTARD BREAD

1 small loaf of French, Vienna, or Italian Bread (about 15 inches long)
¼ cup butter
½ cup chopped green onions or sweet onions (including some of tops)
2 tablespoons French's Parsley Flakes or chopped fresh parsley
2 tablespoons French's Mustard
2 tablespoons French's Sesame Seeds or Poppy Seeds

Cream butter. Blend in onions and parsley. Split loaf the long way. Spread with butter mixture. Spread with French's Mustard. Top with French's Sesame Seeds. Cut bread diagonally in 1½ inch slices not quite through crust. Heat in a moderate (350 degrees F.) oven for about 12 minutes or until lightly browned. Hard rolls can be used instead of bread.

F R E N C H ' S M U S T A R D

Money for your recipes

Tasty meat loaves; cake-frosting specials

HOW ABOUT letting us in on your secret for turning out a tasty meat loaf? Or your way with a cake frosting that makes it special enough for a birthday or company meal? Two Cooks-of-the-Month will receive $20 each. Nineteen other winners will receive $5 each. Selected winning recipes will be pictured in the Prize Tested Recipes pages next January. The winners of these 21 prizes will receive the *Better Homes & Gardens* Certificate of Endorsement and six copies of the endorsed recipe.

Hints to help you

Cake-frosting specials may start from scratch or from packaged mix. Is your favorite a broiled-on or a no-cook type? Tell us the flavoring or trick that makes it "special." Jot down the recipe or type of cake mix that goes with it, too. Ideas:

peppermint fluff frosting
toffee topper
caramel candy frosting
7-minute wonder
best fudge frosting
orange-coconut topping
tutti-frutti frosting

Tasty meat loaves. Use one meat or several—like beef, pork, ham, lamb, veal, or liver. Do you shape your loaf in a ring, oblong, or a round? Be sure to include sauces to serve with it, your garnishing tricks. Here are some "starters":

upside-down meat loaf
stuffed meat loaf
pineapple-ham ring
spicy pork loaf
deviled liver loaves
veal loaf with mushroom sauce
glazed all-beef loaf

This month's winners

(*See recipes on pages 103 and 104*)

Cook-of-the-Month for Hot Sandwiches

Mrs. James Edward, Seattle, Wash.

Cook-of-the-Month for Gelatin Desserts

Mrs. William Woods, Pittsburgh, Pa.

Other Winners

Mrs. Betty Bowley, Albuquerque, N. Mex.
Mrs. Herbert Brown, New Orleans, La.
Mrs. Alfred A. Gunn, Oak Park, Mich.
Mrs. Robert C. Holland, Sheboygan, Wis.
Joyce Raymond, Cleveland, Ohio
Mrs. Richard Wayt, Cheyenne, Wyo.

Honor Roll

Mrs. W. H. Abraham, Madison, Minn.
Mrs. Benjamin Bell, Miami, Fla.
Mrs. George D. Brent, Fairmont, W. Va.
Mrs. Pat J. Carey, Petersburg, Nebr.
Mary E. Hanna, Balboa, C. Z.
I. H. House, Minneapolis, Minn.
Mrs. Clarence E. Krause, Owatonna, Minn.
Mrs. Inez M. Parmelee, Montrose, Calif.
Mrs. A. M. Reed, Glens Falls, N.Y.
Mrs. Harold B. Shepard, Independence, Mo.
Mrs. Oliver F. Smith, Pueblo, Colo.
Mrs. Karol Jean Thomas, Creve Coeur, Ill.
Mrs. Harry H. Wilt, Fort Meade, Md.

Contest rules

1. Write your recipe clearly on one side of the paper. Send but one recipe at a time, and mark it "January Tasty Meat Loaves" or "January Cake-frosting Specials."
2. Print your full name and address in upper right corner of paper.
3. Give measurements in *level* cups, tablespoons, teaspoons.
4. Be sure to specify in your recipe the brand names of the *nationally* known food products you use as ingredients—products available everywhere—so we can test your recipe with the same brands.
5. Include 50 to 100 words about the origin of the recipe you submit.
6. Recipes submitted become property of *Better Homes & Gardens*.
7. Entries must be postmarked by midnight, June 30. In cases where duplicate recipes are submitted, the one with the earliest postmark will be judged. All judges' decisions will be final.
8. Address the recipes you enter to 5406 Tasting-Test Kitchen, *Better Homes & Gardens*, Des Moines 3, Iowa.

Only Royal

Gelatin Dessert Gives You the "Fresh-Fruit Vitamin"-C

And Tastes So Delicious—Like The Fresh Ripe Fruit! New ROYAL Gelatin Dessert gives your family the vitamin so important to sturdy bodies, good teeth and bones. There's actually more Vitamin C in each package than in three ounces of fresh raspberries or five ounces of tomato juice. *No other Gelatin Dessert does this for you!* Get ROYAL today. 7 Favorite Flavors!

FOR SCRUMPTIOUS DESSERTS EVERY TIME...

Always Reach For Royal

"Everything's Better with Blue Bonnet on it"

Better for FLAVOR! NUTRITION! FOOD ENERGY!

TWO FINE PRODUCTS OF STANDARD BRANDS INC.

NOW-A NEW FLAVOR!

American French

Makes a fresh, smooooth dressing—in seconds!

The only true French dressing made for American tastes! You mix it *fresh*, in the gourmet manner, using this new Mix of subtle herbs and spices, delicately blended by a continental chef. Yet the dressing will have the full-bodied texture of American bottled dressings . . . and the smooth, lively flavor so many families like. Look for this happy combination, new Good Seasons American French Mix, now at your grocer's!

The Good-Seasons self-measuring cruet mixes your dressing in seconds!

All you do is empty Good Seasons Mix into it, add vinegar, the bit of water that makes a smoother blend, and your favorite salad oil. Shake, then serve from this smart cruet.

Try these other Good Seasons Mixes for lighter French dressings, too: Old Fashion French, Old Fashion Garlic, California French, Bleu Cheese and Exotic Herbs. Each envelope makes a half-pint of dressing.

You get the Good Seasons Cruet in this Salad Dressing Kit with salad recipes and 2 other Mixes.

ANOTHER FINE PRODUCT OF GENERAL FOODS

Good Seasons Salad Dressing Mix

Orange-blossom Cooler—a partified punch to celebrate "the bride's day." Frozen orange-juice, lemonade concentrates spark up fluffs of ice cream and sherbet.

Atop punch, float orange-slice "blossoms" centered with maraschino cherries.

Punch for your party

By Virginia Newman

THESE PUNCHES will sparkle at that June wedding reception or graduation tea. Some bubble with ginger ale, others are ice-cream smoothies—and they're all delicious! Serve your punch in elegant crystal, or in a big pottery salad bowl or soup tureen. Sail garnish atop

Photographs: Mike Nelson

↑ **Grape Refresher** to fill the new graduate's friendship cup.

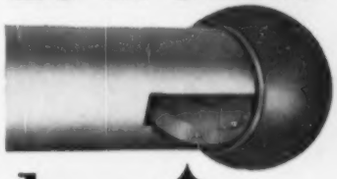
Combine 2 cups grape juice, 1 cup orange juice, ½ cup honey. Chill. Pour over ice in serving bowl. Pour 2 large bottles (7 to 8 cups) chilled ginger ale slowly down side of bowl.

Frosty Fruit Punch is a delightful summer blend of pineapple, orange, lemon, and lime juices. Ginger ale, carbonated water give the zingo.

No punch service? Ladle from jumbo salad bowl into teacups.

Recipes on page 116

it rolls



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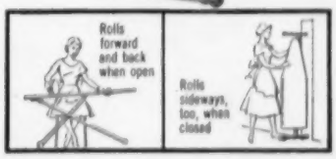


Exclusive new

Lady Arvin

ROLL-AWAY *De Luxe*

EASIEST-TO-HANDLE ironing table ever developed. This new Lady Arvin "Roll-Away" De Luxe provides *two sets of wheels* to eliminate lifting and dragging. It rolls anywhere—even sideways into the slimmest storage space!

Either right or left-hand ironing with utmost ease and ample knee room. Adjusts from either side also, to any height from 24" to 36". Other Arvin quality features include: Triple-strength ventilated top for all-important stability . . . Sturdy but lightweight all-metal construction . . . Safety lock . . . Rolled, snag-proof edges . . . Non-skid front foot . . . Chrome-plated legs, turquoise enameled top.

Other Arvin models both adjustable and non-adjustable. Write for *illustrated folder*—Dept. TB-76.

LADY ARVIN PADS AND COVERS

Custom-tailored to fit perfectly all Arvin Ironing Tables—without bulge, bunch, slide or slip. At your department or hardware store.

Arvin INDUSTRIES, Inc., Columbus, Ind.

Arvin also manufactures Outdoor Furniture, "Charky" Outdoor Grills, Radios, Fans, Electric Heaters, Lectric Cook, Car Heaters.

TENDER, MOIST . . . ANGEL-LIGHT

THE KIND OF ANGEL FOODS FEW COOKS (and no other mix) CAN MATCH

You'll taste the soft, light delicacy of Angel Food perfection when you bake a Duncan Hines Angel Food — from the mixes made to match the finest Duncan Hines has found in years of traveling and tasting. All moist tenderness, with a chewy macaroon crust! The secret is egg whites in a full measure (because eggs vary in size) . . . specially pre-fluffed to whisk up into a mountain of snowy peaks, and quickly! This is the reason your cake rises high above the pan, cuts into tall and velvety wedges. Snowy white or rich with chocolate flavor, you get this perfection only from the two Duncan Hines Angel Food Mixes. Like all 16 Duncan Hines Mixes, these have something special, something . . .

Exclusively Duncan Hines

CHIFFON CAKE MIX—the new queen of cakes, now brought to you only by Duncan Hines. This party-festive cake is the crowning achievement of any cook—and with the Duncan Hines Mix it has a special combination of richness and delicacy. Everything you need is in the package, including a special packet of liquid shortening.

SUNSHINE SPONGE CAKE MIX—makes this old-fashioned cake with a taste and texture exclusively Duncan Hines. Feather-light, high as an angel food—faintly lemony, delicious! Sunshine-yellow, from the two fresh eggs you add. One of the truly great cakes you'll find in Duncan Hines Mixes—and you'll bake it to perfection.

Duncan Hines Mixes are sold throughout most of the United States west of the Alleghenies.

Duncan Hines

America's foremost Authority on Good Eating

Duncan Hines is an unusually happy man searching the world for unusually good food. Dining everywhere, talking to chefs and cooks to find those treasured secrets that can be found no other way. You can match these secrets with Duncan Hines Mixes—no other name means quite the same as Duncan Hines.

Better Homes & Gardens Prize Tested Recipes

Gelatin desserts

File under Desserts

Mocha Chip Torte

1 envelope (1 tablespoon) unflavored gelatin
¾ cup sugar
2 tablespoons instant coffee
Dash salt
2 egg yolks
1¾ cups milk
½ teaspoon vanilla
2 egg whites
¼ cup sugar
1 cup heavy cream, whipped
1 6-ounce package (1 cup) semisweet chocolate pieces, chopped
½ cup broken California walnuts

In top of double boiler, combine gelatin, ¼ cup sugar, coffee, and salt. Beat together egg yolks and milk; stir into gelatin mixture. Cook over *hot, not boiling*, water, stirring constantly, till slightly thick. Add vanilla; chill till partially set. Beat egg whites till soft peaks form; gradually add ¼ cup sugar, beating till stiff peaks form; fold into gelatin. Reserve ½ cup of *whipped* cream and 2 tablespoons chocolate for garnish. Fold in remaining cream, chocolate, and nuts. Pour into 10x6x1½-inch dish; chill till firm. Cut in squares; garnish. Makes 6 to 8 servings.

Mrs. William Woods, Pittsburgh, Pennsylvania

Cut along dotted lines

Photographs: Mike Nelson

Hot sandwiches

Jumbo Pizza Loaf

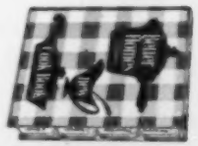
1 loaf French bread, about 18x4 inches
• • •
¾ pound ground beef
⅓ cup grated Parmesan cheese
¼ cup finely chopped onion
¼ cup chopped ripe olives
1 teaspoon salt
½ teaspoon oregano
Dash pepper
1 6-ounce can (⅔ cup) tomato paste
• • •
3 tomatoes, thinly sliced
5 slices sharp process cheese, halved

Cut loaf in half lengthwise. Combine meat, Parmesan cheese, onion, olives, seasonings, and tomato paste; spread evenly on each half loaf. Broil about 5 inches from heat 12 minutes or till meat is done. Top with tomato and cheese slices; broil 1 to 2 minutes, just till cheese begins to melt. Makes 8 servings.

Mrs. James Edward, Seattle, Washington

Add these pages to your COOK BOOK

File under Breads



Grilled Corned-beef Sandwiches

- 12 slices pumpernickel
- ½ cup Thousand Island dressing
- 6 slices Swiss cheese
- 6 tablespoons drained sauerkraut
- ¼ pound cooked or canned corned beef, sliced

• • •

- Butter or margarine, softened

Spread 6 slices of bread with dressing. Top each with cheese, 1 tablespoon sauerkraut, corned beef, and bread slice. Butter top and bottom of sandwiches. Grill on both sides on griddle or sandwich grill till hot and cheese melts. Makes 6.

Joyce Raymond, Cleveland, Ohio

Hot Chicken-salad Sandwiches

- ¾ cup diced canned or cooked chicken
- ¾ cup celery slices
- ¼ cup chopped California walnuts
- 1 tablespoon minced onion
- 1 tablespoon lemon juice
- ⅓ cup mayonnaise or salad dressing
- Salt and pepper

• • •

- 4 slices enriched bread
- Butter or margarine
- ½ cup crushed potato chips

Combine chicken, celery, nuts, onion, lemon juice, mayonnaise, and salt and pepper to taste. Toast bread on one side; butter other side and spread with chicken mixture. Top with potato chips. Heat on baking sheet in hot oven (425°) 12 minutes or till hot. Makes 4 servings.

Mrs. Betty Bowley, Albuquerque, New Mexico

Tuna Stack-ups

- 15 thin slices bread
- Butter or margarine
- 1 6½- or 7-ounce can (1 cup) tuna, flaked
- 1 2-ounce can (½ cup) mushroom stems and pieces, drained
- 4 hard-cooked eggs, chopped
- ½ cup chopped ripe olives
- ¼ cup chopped green onions
- ¼ cup mayonnaise

• • •

- 1 can condensed cream of chicken soup
- 1 cup dairy sour cream

Trim bread; butter both sides. Combine tuna, mushrooms, eggs, olives, onions, and mayonnaise; spread on 10 bread slices. Assemble 5 triple-decker sandwiches, with remaining buttered slices on top. Fasten corners with toothpicks. Toast on baking sheet in moderate oven (350°) 20 minutes or till crisp and lightly browned. (Sandwiches may be wrapped and chilled till time to go in oven—heat 5 minutes longer.) Mix soup, sour cream; heat and stir just till hot. Serve over hot sandwiches.

Mrs. Robert C. Holland, Sheboygan, Wisconsin

Cut along dotted lines

Add these pages to your Better Homes & Gardens Cook Book

Strawberry Bavarian Surprise

Thaw one 10-ounce package frozen sliced strawberries; drain, reserving syrup. To 2 tablespoons of the syrup, add 1 *teaspoon* unflavored gelatin; dissolve over hot water. Add to remaining syrup; mix well. Combine berries and 1 tablespoon light corn syrup; add gelatin mixture. Divide among 9 individual molds; chill till firm. Meanwhile, in top of double boiler, mix 2 *teaspoons* unflavored gelatin, ¼ cup sugar, and ¼ teaspoon salt. Beat 2 egg yolks; stir in 1¼ cups milk; gradually add to gelatin mixture. Cook and stir over hot water just till mixture coats spoon. Add ½ teaspoon vanilla; chill till partially set. Beat 2 egg whites till soft peaks form; gradually add ¼ cup sugar, beating till stiff peaks form. Fold into gelatin mixture. Fold in 1 cup heavy cream, whipped, and ½ cup toasted slivered blanched almonds. Pour over gelatin in molds; chill till firm.

Mrs. Herbert Brown, New Orleans, Louisiana

Pink Raspberry Snow

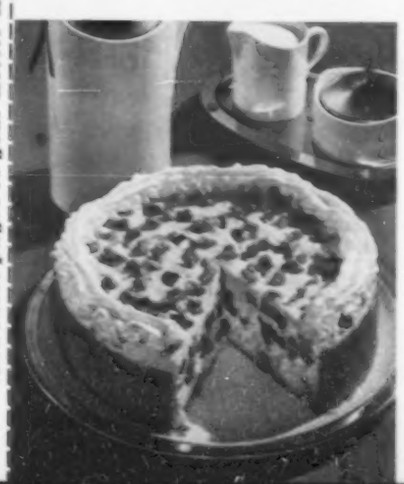
- 1 package raspberry-flavored gelatin
- ½ cup sugar
- 1½ cups hot water

• • •

- ¼ cup orange juice
- ¼ cup lemon juice, fresh, frozen, or canned
- 2 10-ounce packages frozen raspberries, thawed and sieved

Combine gelatin and sugar; dissolve in hot water. Cool. Add remaining ingredients. Pour into 2-quart refrigerator tray; freeze firm. Break in chunks; beat until smooth. Return to tray; freeze 3 to 4 hours. (Mixture won't freeze firm.) Makes 8 to 10 servings.

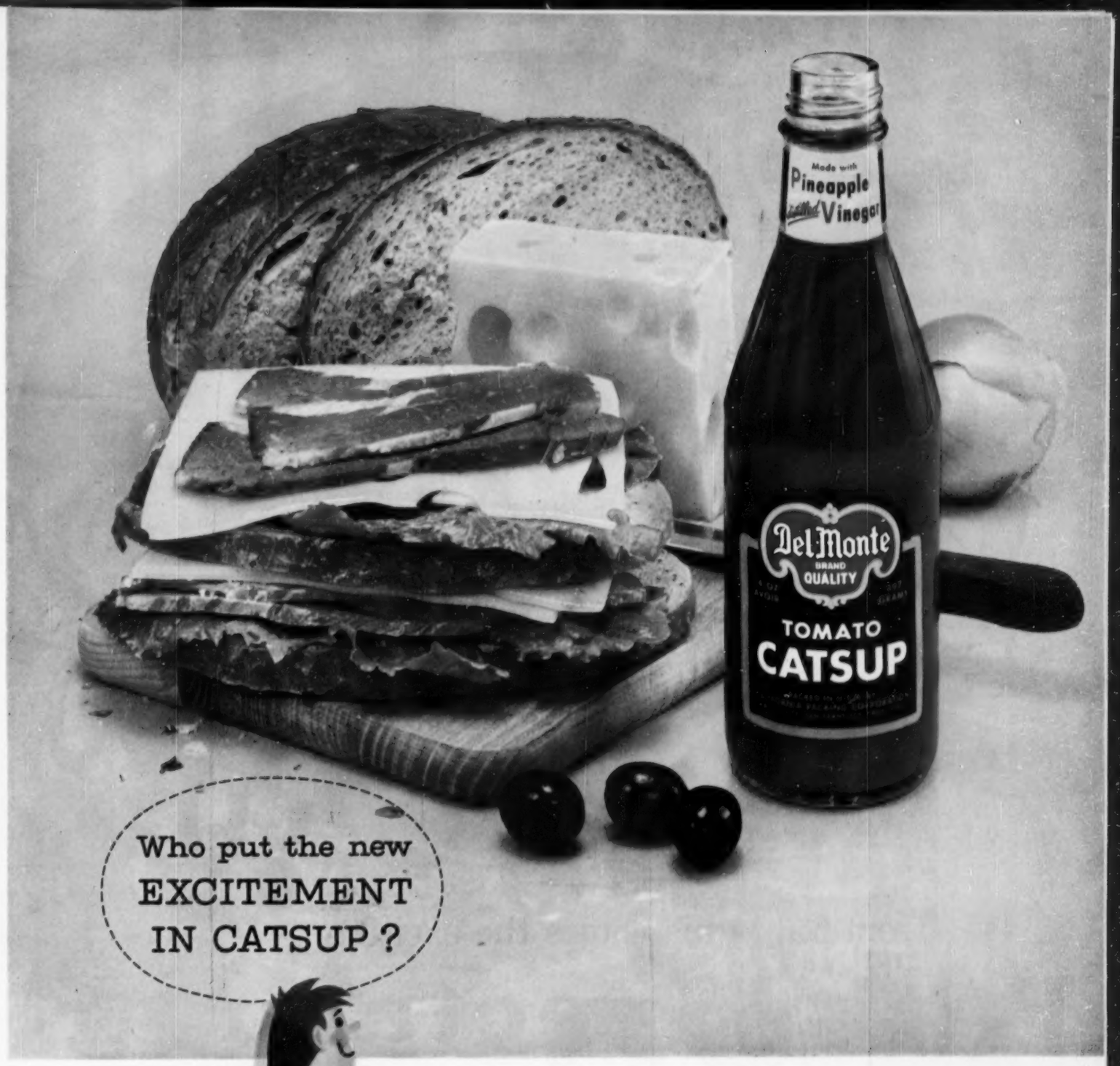
Mrs. Richard Wayt, Cheyenne, Wyoming



Crown-jewel "Cake"

Mix 1½ cups fine graham-cracker crumbs, ⅓ cup sugar, ½ cup melted butter or margarine; press in bottom and 2½ inches high on sides of buttered 9-inch spring-form pan; chill. Dissolve 1 package strawberry-flavored gelatin in 1 cup hot water; dissolve 1 package black-cherry flavored gelatin in 1 cup hot water. Add ½ cup cold water to each; pour each into an 8-inch square pan. Chill till firm. Cut in ½-inch cubes. Dissolve 1 package lemon-flavored gelatin and ¼ cup sugar in 1 cup hot water. Add one 9-ounce can (1 cup) crushed pineapple, ½ cup cold water, 3 tablespoons lemon juice, and dash salt; chill till partially set. Whip till fluffy. Fold in gelatin cubes and 1½ cups heavy cream, whipped. Pour into crumb-lined pan. Sprinkle ¼ cup chopped California walnuts over top. Chill till set. Border with whipped cream. Cut in wedges. Makes 12 servings.

Mrs. Alfred A. Gunn, Oak Park, Michigan



Del Monte chefs did ...
with pineapple distilled vinegar !

How full of tomato flavor can a catsup be? Depends on the vinegar that's used for blending! And DEL MONTE is the Catsup made with pineapple distilled vinegar...the exciting vinegar that awakens every last bit of flavor in the finest ripe tomatoes, and in tangy spices, too. That's why DEL MONTE Brand Catsup has the livelier flavor you want! Try it!

from California comes the exciting

Patio Spectacular!

with golden cling peaches broiled on Kaiser "Quilted" Foil

The newest, brightest notion yet from the land where Barbecues make party history: broiled Cling Peaches from California! Juicy, sweet clings are such a colorful, *simple* way to touch your meals with glamour . . . taste so *right* with every cook-out favorite. Next time you're shopping, pick up a can or two of clings. Sunshiny, golden cling peaches make all your meals company-good, out-of-doors or in!

EASY TO FIX: Just marinate two-inch lamb squares in your favorite barbecue sauce. (Or use other meats if you prefer.) Thread squares on skewer with parboiled onions, green pepper, mushrooms. Broil. Ten minutes before the meat turns its handsomest brown, place golden cling halves on Kaiser Broiler Foil (the new, stronger "Quilted" foil). Fill hollows with catsup, chili, or other relishes, and grill until meat is ready.

CANNED Cling Peaches **FROM CALIFORNIA**

New barbecue gear

Begins on page 90

Wood accessories are perfect companions for outdoor cooking. Salt and pepper grinder stand 16½ inches tall, are slim and easy to hold and use.

Staved teak boatlike salad bowls and carving board have interesting shapes, are sure to be conversation pieces.

Their dual "personalities" make them perfect for indoors, too. Board has hole for hanging, can decorate kitchen wall when it's not in use.

Matching "his and her" denim aprons and hot pads make fun barbecue outfits for Mom and Dad as chefs. Sets sport horse faces—in "he" and "she" genders. Plastic hoop goes through casing at top to replace ties.

Keeping cold is rule one when you plan to serve soft drinks on a picnic. Here are some fine helpers.

Plastic duffel bag holds 4 gallons, carries drinks, food for a crowd. Note its clever seafaring design.

Brass steer's face adorns the plastic ice bucket in front. Keeping up with the Western motif, bucket is terra cotta color.

Super cooler at back is plastic, has a cork twist-lock lid so you can carry it without bottles falling out. It has 4-gallon capacity.

Sturdy "musts." Tools are made of stain-resistant steel, have "curved-to-fit-the-hand" handles for sure gripping. Lazy Susan pedestal has three stainless-steel containers and ladles for assortment of salad dressings. Yellow enameled iron coffeepot comes in flame, too.

More on next page

Some refrigerator-freezers have one feature ... some have another, but

You've Got Everything when you get the new "*all-feature*" Gibson!

Now you don't have to sacrifice one feature for another. With a Gibson you get every modern feature. Check the list below.

Then see your Gibson dealer and see the many other outstanding features of this great new Gibson two-door.

Gibson® ...*Great in Quality!*

DIVISION OF HUPP CORPORATION

REFRIGERATORS
ELECTRIC RANGES

FOOD FREEZERS
AIR CONDITIONERS

© 1957 by Hupp Corporation, Gibson Refrigerator Co., Division of Hupp Corporation, Greenville, Mich. In Canada—Gibson Refrigerator Co., Ltd., Montreal, Quebec

Fresh idea for breakfast

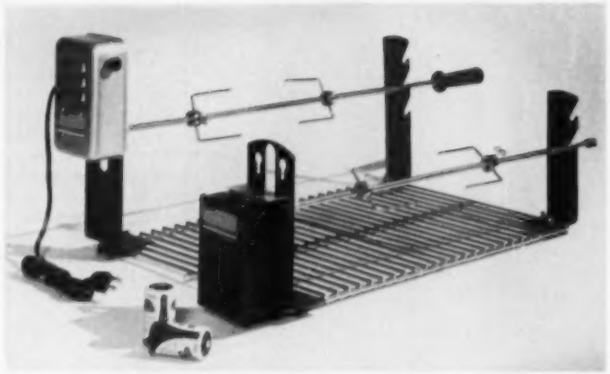
...“Philly” toast!

So wholesome! And the fresh, cool taste wakes up sleepy morning appetites

Be sure to get genuine Philadelphia Brand Cream Cheese ...made only by KRAFT

New barbecue gear

Continued from preceding page



Want to convert your old grill into an up-to-date rotisserie? Here's the easy way—with these rotisserie attachments. They may be added to any grill. One at back is electric, one up front runs on battery. Attaching unit is no problem—clamps fit over grids of your grill at each end, screw in place securely for permanent or temporary use.

Cast some light on your nighttime barbecue gatherings. At left is copper kerosene lantern on black iron stand with tray.

Torch in center uses kerosene, too. To prop it up, insert in ground. Two 40-inch poles telescope torch to 6 feet. Electric light at right is 40 inches high, has black base, red or green shade. It has rubber cord, plug; weather-resistant socket.

Barrellike iced-tea cooler has a spigot for help-yourself serving. Glass column in center of barrel holds crushed ice to cool tea, yet not water it down. Use cooler for other beverages, too.

Graduated ceramic triplets with handles, on wood rack, are easy-to-pour-from servers for salad dressing, cream sauces—anything you please.

More on page 111

For Father's Day

LET'S HAVE A CHICK-N-QUE

Dad dotes on barbecues. But on his big day make him the guest. Plump him down in a hammock while the chicken cooks and the Coca-Cola and Cranberry Sauce are a-cooling. (Secret: a Chick-N-Que is *easy* to do!)

Start your fire early. When it's down to glowing coals, wrap potatoes in Reynolds Wrap and snuggle into embers. Brush young chickens with Chick-N-Que Sauce and lay, skin side up, on a grill 12″ from coals. Cook slowly—1 to 1¼ hours—turning and basting frequently. To test doneness, twist a joint. When bones part willingly, call the crowd.

Now brighten each plate with two slices of chilled Ocean Spray Jellied Cranberry Sauce—red and tangy—or with spoonfuls of Whole Berry Sauce. Relax—and enjoy the day.

• • •

P.S. Have an Oven-Chick-N-Que indoors—any season. Place chicken, skin side down, in shallow pan lined with Reynolds Wrap. Baste with sauce. Place in hot oven (450° F.) about 25 minutes. Reduce to 325° F. Turn, baste frequently, bake till tender.

Now in Canada, too

Chick-N-Que Sauce. For 3 broiler-fryers, mix well: ½ cup Mazola Oil, ¾ cup lemon juice or cider vinegar, ¼ cup water, 1½ tbs. salt, 3 tbs. sugar, 1¼ teaspoons Tabasco Sauce. Heat to boiling. Keep hot, well mixed.

If you prefer a highly seasoned sauce, increase amount of Tabasco and add mustard and Worcestershire sauce.

For a holiday flavor any day—serve *Ocean Spray* **CRANBERRY SAUCE**

"West Wind" by Lenox, so lovely and yet so practical

It's love at first lovely sight, the first time you see the most translucent, beautiful china, Lenox . . . and the most colorful of Lenox patterns, West Wind. You know at once you'll be proud every time you set your table with this lovely china. Lenox gives you that pride of ownership that comes only with superlative quality. Your own Lenox is that same exceptional quality as the services custom-ordered for Presidents and Kings. This prestige china is surprisingly durable, too. You'll find it will outlast any ordinary, "compromise china". You are very wise and *practical* to choose the finest china you can find, Lenox.

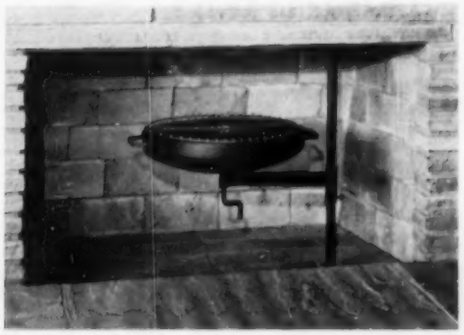
"West Wind" Coupe Shape. 5 piece place setting includes dinner, salad or dessert, butter plates; cup and saucer. $19.95. Single pieces are also available. Most stores have convenient budget plans.

For name of your dealer, pattern-price leaflets in color, and informative "Reference Book of Fine China", send 25¢ to Lenox Inc., Dept. S-86, Trenton, N. J.

LENOX CHINA

New barbecue gear

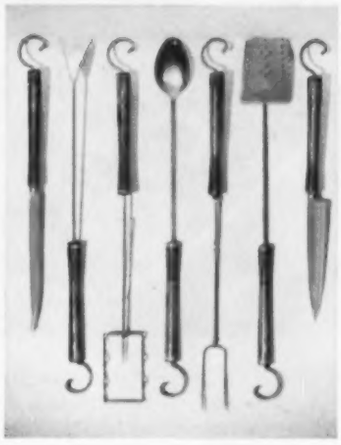
Continued from page 108



Outdoors or indoors in your fireplace, unique grill can do a grand job of barbecuing.

Unit may be parked into your fireplace with the sturdy adjustable bracket, mounted on screw-type jack.

For heat control, revolving 18-inch grid may be adjusted by crank under fire bowl.



Tools, tools, and more tools! Newest addition to this long-handle parade are the knives. They are French cook's knife, slicer-server with tine end, boning knife (not shown).

All boast new toast-colored handles, have giant "hooks" at the ends for uniform and easy hanging.

← Burlap caddy is a novel way to keep tools rounded up in one place. Hand it on wall, from grill or table at barbecue time. To store, roll up to keep dust off. Park in a drawer.

Paper napkins, plates, cups, tray liners make those outdoor sessions more carefree—no dishes to wash! Gay plaids and designs decorate them.

Foldables like these help to ease the storage problem that many people are faced with today.

Camp stools have sturdy steel-rod legs, come with red, blue, yellow, green canvas seats. Carrying box makes it simpler to take stools with you on trips. One-piece folding brazier is full size when in position, is adjustable for four grilling levels.

How to make *sure* your *frozen meats* keep their *"fresh-cut"* flavor

For freezer or freezer compartment. 15", 18", 24" wide rolls in handy cutter boxes, with wrapping instructions.

Your frozen meats can be juicy, tender, and full of flavor when you wrap them right with KVP Freezer paper. It's easy to use—fits snugly—doesn't stick to meat—guards against drying out, freezerburn.

KVP originated Freezer paper and keeps it the leader in low-cost protection. Buy it at locker plants, and in the paper section of your favorite store. Keep a box handy for meat bargains.

COMMENDED PARENTS

Save time, save work, with these KVP household papers. Shelf Papers • Freezer Papers • Heavy Waxed • Dusting Papers • Pie Tape • Baking Cups • Cookery Parchment Gift Wrapping

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Do you know these

Tricks with summer vegetables

"Pick" fresh vegetables from your garden or the local market. Get sparkling flavor results simply by adding! Try—

Green beans *PLUS* cream cheese and dill

Quick Dill Green Beans. Here's an extra-easy flavor touch: Soften one 3-ounce package cream cheese; blend in 1 tablespoon light cream or top milk, ¾ teaspoon dill seed, ¼ teaspoon salt. Add to 4 cups of hot drained cooked green beans and toss lightly just till cheese melts. Do this last minute so beans stay hot. Recipe makes 6 servings.

Peas *PLUS* new onions for a French accent

French-style Peas. Put 4 or 5 lettuce leaves in heavy saucepan; add 2 cups shelled peas, 4 chopped green onions, 1 teaspoon sugar, ½ teaspoon salt, dash pepper, dash thyme, 2 tablespoons each water and butter or margarine. Cover tightly; cook over *low heat* just till tender, 10 to 15 minutes (add more water, if needed). Four servings.

Photographs: Nelson, Photography, Inc.

Spinach *PLUS* a zesty bit of horse-radish

Spinach Perk-up. Wash 1 pound spinach leaves several times in lukewarm water, lifting out of water each time. Put spinach in pan, salting between layers. Cook covered without water except the drops that cling to leaves. Reduce heat when steam forms; cook 3 to 10 minutes. Drain well. Chop spinach coarsely.

To spinach, add 2 tablespoons butter or margarine, ¼ cup light cream or top milk, and ½ to 1 tablespoon horse-radish; heat. Salt and pepper to taste. Trim with daisy of hard-cooked egg and serve hot to the he-men in your family. Makes 3 to 4 tasty servings.

Beets *PLUS* the tang of fresh orange

Beets in Orange Sauce. For a delicate flavor that can't be beat, combine 3 tablespoons sugar, 2 tablespoons flour, and 1 teaspoon salt in saucepan. Add 1 tablespoon butter or margarine and blend to smooth paste over low heat. Slowly stir in ½ cup orange juice.

Cook until mixture thickens slightly, stirring constantly. Pour the Orange Sauce over 8 to 10 hot cooked beets (whole, sliced, or cubed). Add a pretty garnish of fresh orange sections. Recipe makes 4 servings. Sparks up canned beets in wintertime, too.

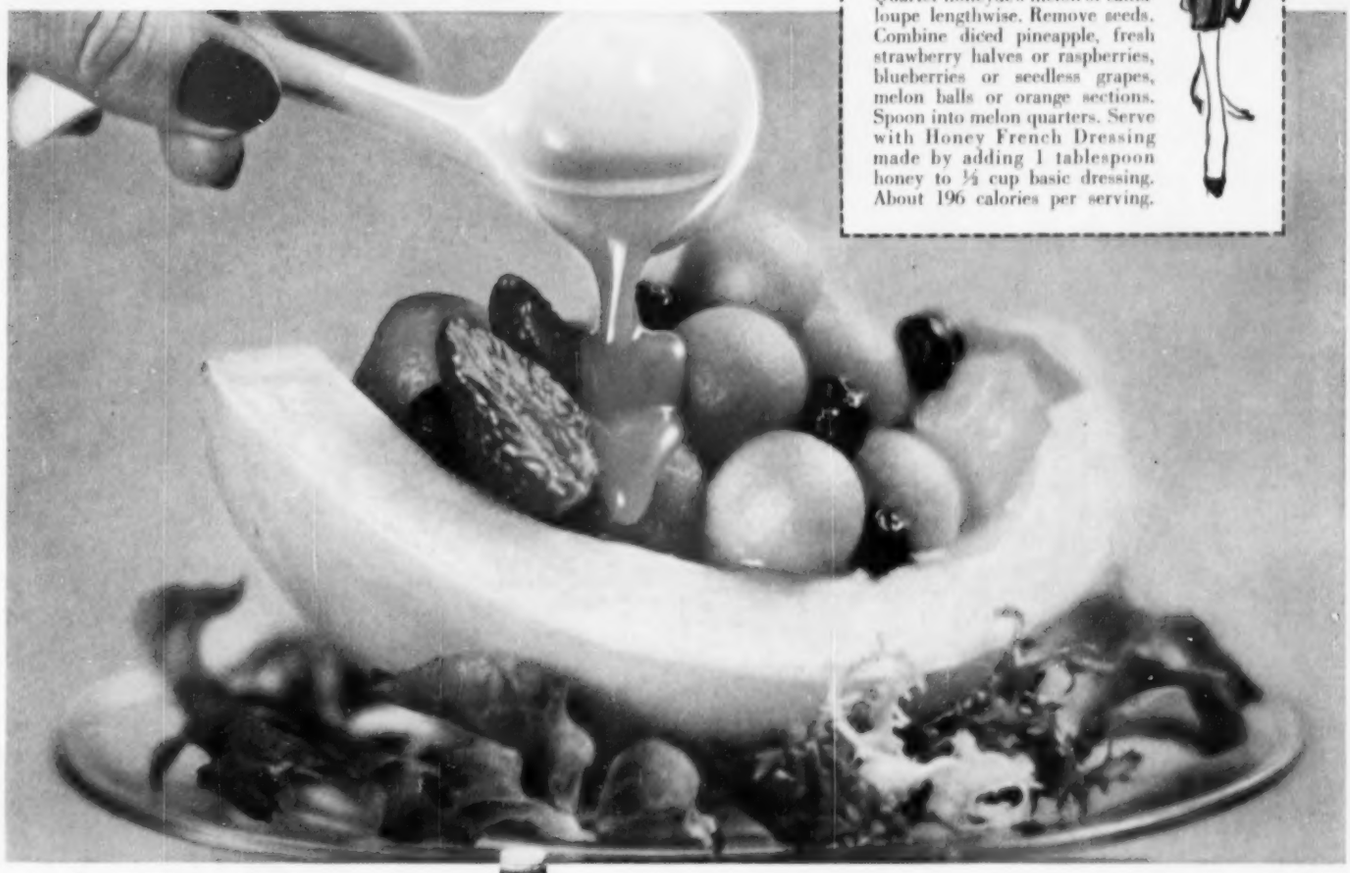
More on page 159

Slimming Salads

are best-dressed with your own *lighter* dressings using Heinz Vinegar and Wesson Oil

MELON BOAT SALAD

Quarter honeydew melon or cantaloupe lengthwise. Remove seeds. Combine diced pineapple, fresh strawberry halves or raspberries, blueberries or seedless grapes, melon balls or orange sections. Spoon into melon quarters. Serve with Honey French Dressing made by adding 1 tablespoon honey to ½ cup basic dressing. About 196 calories per serving.



BASIC 1-MINUTE FRENCH DRESSING

1 teaspoon salt	¼ teaspoon pepper
½ teaspoon sugar	*¼ cup Heinz Vinegar
½ teaspoon paprika	*¾ cup Wesson Oil

● Combine and shake well in covered jar. Makes 1 cup.

*For a sharper dressing, use ⅓ cup Heinz Vinegar and ⅔ cup Wesson Oil.

SLIMMING, **satisfying salad meals** help keep you trim for this summer's sleek new styles. Add your own light, bright homemade dressings and keep calories down.

● **You make the easiest and best dressings** in one minute with Wesson Oil and Heinz Vinegar. These dressings cost less and go further than the kind you buy.

● **Fresher and lighter** than any other salad oil, Wesson brings out all the goodness nature puts into fresh greens and vegetables—never hides flavors as heavy oils do.

● **Mellow Heinz Vinegars,** always uniform in strength, cost so little it pays to use the very best in your salad dressings.

Wesson Oil · Heinz Vinegar

Meat Loaf, Barbecue Style

You never tasted it better!

Just when you think there's nothing new under the sun—here's meat loaf in a delicious new dress!

It's a tart-sweet, barbecue-style glaze—as tempting to see as to eat! For Hunt's Tomato Sauce makes it sparkling bright with rich, red, ripe tomato flavor.

So easy, you can do it with your own favorite meat loaf mixture. But we think ours is especially good! Hunt's Tomato Sauce right in the meat loaf mixture makes it extra moist and juicy, and seasons it just right.

When your cooking calls for tomato flavor—add Hunt's Tomato Sauce. It's *made* for cooking, nothing else! Just the right amount—the right consistency—the right spicy tomato flavor—to make spaghetti, stew, Spanish rice, beans and casseroles delicious! To say nothing of this barbecue-style meat loaf, which your family will enjoy:

- 1½ lbs. ground beef
- 1 cup fresh bread crumbs
- 1 onion, finely chopped
- 1 egg
- 1½ tsp. salt
- ¼ tsp. pepper
- 2 cans Hunt's Tomato Sauce
- ½ cup water
- 3 tbsp. vinegar
- 3 tbsp. brown sugar
- 2 tbsp. prepared mustard
- 2 tsp. Worcestershire

Mix together beef, crumbs, onion, beaten egg, salt, pepper and ½ can Hunt's Tomato Sauce. Form into loaf and put in shallow pan, about 7 x 10 inches. Combine the rest of the sauce and all other ingredients. Pour over loaf. Bake in Moderate oven (350°F.) 1 hour and 15 minutes. Baste occasionally. Makes 4 to 6 servings.

Hunt-for the best

***HELPFUL RECIPES** on every can. Also, send for FREE Recipe Booklet, "21 New Ways to Serve Hamburger." Address Hunt Foods, Inc., Dept. B6, P.O. Box 5, Fullerton, California*

America's Favorite Tomato Sauce—by far!

It's NEWS to me!

Home milk bar

Now available for home use—a restaurant-type milk dispenser. Handy unit encourages family to drink milk, makes it fun for kids who usually need coaxing. Fresh milk keeps best covered in a dark, cold place, so this convenient dairy bar boasts a 35-degree temperature, houses two 3-gallon containers. Future plans may include rental as well as sale of these appliances from some of your local dairies.

Tots can "pour" their own milk by raising dispenser handle. Valve may be equipped with a lock, if needed. Set unit on table, counter, or special cabinet, near 110-volt electrical outlet. New refrigerated dispenser stands about 31 inches high, 25 wide, is 16 inches deep.

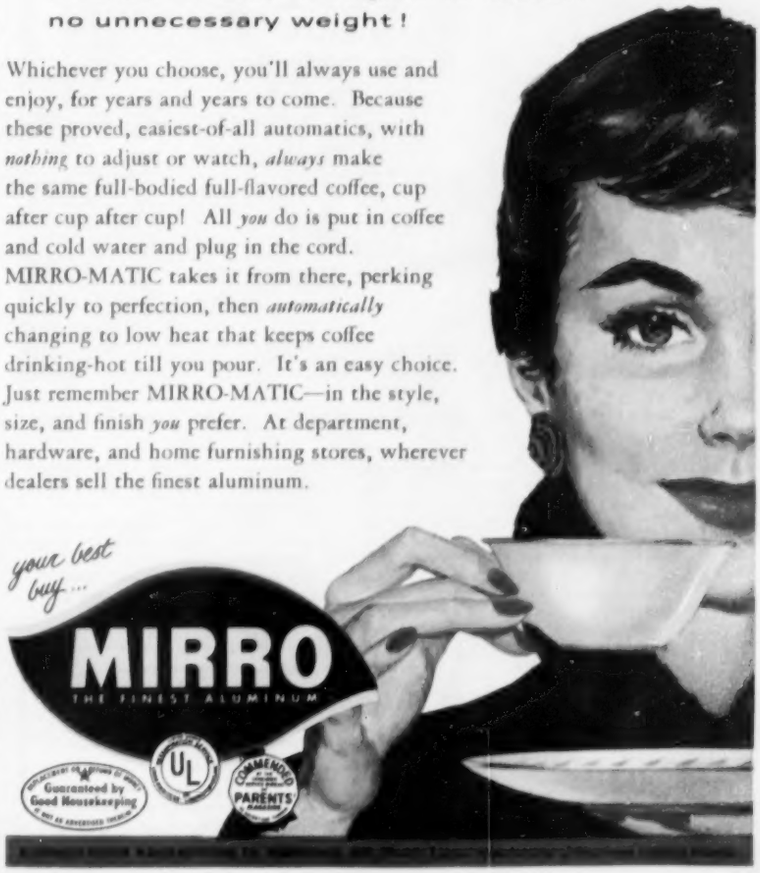
Photographs: Hopkins

And look inside! Milk is delivered by dairy in sealed 3-gallon containers. Second one stands by, ready to take over when one in use is empty. Just connect sterile plastic tube to container and valve. Note niche for dairy "extras," such as eggs, butter. *Home Dairy Bar*, retail $165, plus freight. Norris Dispensers, Inc., Minneapolis.

MIRRO-MATIC
completely automatic
electric percolators

no dials to set! no lights to watch!
no unnecessary weight!

Whichever you choose, you'll always use and enjoy, for years and years to come. Because these proved, easiest-of-all automatics, with *nothing* to adjust or watch, *always* make the same full-bodied full-flavored coffee, cup after cup after cup! All *you* do is put in coffee and cold water and plug in the cord. MIRRO-MATIC takes it from there, perking quickly to perfection, then *automatically* changing to low heat that keeps coffee drinking-hot till you pour. It's an easy choice. Just remember MIRRO-MATIC—in the style, size, and finish *you* prefer. At department, hardware, and home furnishing stores, wherever dealers sell the finest aluminum.



HOW TO PLAN AN ELEGANT KITCHEN

Revco, the originator of built-in refrigerators and freezers, has assembled a most complete book for you on planning trend-setting kitchens. New ideas in layout, exciting colors, new living-dining arrangements, and new ideas in built-ins!

You will see how the revolutionary new Revco Bilt-In Refrigerators and Freezers—and the new Undercounter Freezer—are being used in today's modern new kitchens.

Select the custom finish you prefer: Stainless Steel, Copper, matching wood or decorator colors.

Yes, your new kitchen can graciously express your good taste and good judgement.

Send for your copy of "Trend-Setting Kitchens" today!

Revco, Inc., Dept. BHG-57, Deerfield, Michigan
Please send me my copy of "Trend-Setting Kitchens."
My 25¢ to cover mailing is enclosed.
I am interested in ☐ new home ☐ remodeled home
Name _____
Address _____
City _____ Zone ____ State _____

Punch for your party

Begins on page 101

Ruby Flip—delicious sipping on a hot afternoon. And as simple as floating scoops of pineapple sherbet in glasses filled almost to top with chilled, bottled cranberry-juice cocktail. For gay topknots, string pineapple tidbits and bright maraschino cherries on toothpicks.

Orange-blossom Cooler

Quick as a wink with tangy frozen-juice concentrates. Ice cream and sherbet add richness—

- 2 6-ounce cans frozen lemonade concentrate
- 1 6-ounce can frozen orange-juice concentrate
- 9 cups cold water

• • •

- 5 pints pineapple sherbet
- 1 quart vanilla ice cream

Combine frozen concentrates and water. Place sherbet and ice cream in bottom of punch bowl; break in small pieces with a large spoon. Add juice mixture; stir till sherbet and ice cream are partially melted. On top of punch, float "blossoms" of orange slices centered with maraschino cherries. Makes about 5 quarts punch or 40 one-half cup servings.

Golden Summer Drink

- ½ cup sugar
- 1 cup water
- 1 cup strong tea
- 1 cup unsweetened pineapple juice
- ¾ cup lemon juice, fresh, frozen, or canned
- ½ cup orange juice

• • •

- 2 small bottles (about 2 cups) ginger ale, chilled

Make simple syrup by boiling sugar and water 5 minutes; set aside. Combine tea and fruit juices; chill. Just before serving, add ginger ale and syrup to taste. Trim with orange slices and mint sprigs. Makes about 6 one-cup servings.

Frosty Fruit Punch

Sparkling ginger ale and carbonated water put the fizz on—

- 2 46-ounce cans unsweetened pineapple juice
- 2⅔ cups orange juice
- 1⅓ cups lemon juice, fresh, frozen, or canned
- ⅔ cup lime juice
- 2 cups sugar
- 2 large bottles (7 to 8 cups) ginger ale, chilled
- 2 large bottles (7 to 8 cups) plain carbonated water, chilled

Combine fruit juices and sugar; chill thoroughly. Pour over large cake of ice in punch bowl. Pour ginger ale and carbonated water slowly down the side of bowl. For trim, float twist of sliced orange and sprigs of fresh mint on block of ice. Makes about 9 quarts.

Raspberry Ade

- 1 envelope raspberry-flavored summer-drink powder
- 1 envelope grape-flavored summer-drink powder
- 1½ cups sugar
- 2 quarts water
- 1 cup orange juice
- ½ cup lemon juice, fresh, frozen, or canned
- 1 9-ounce can (1 cup) crushed pineapple

Dissolve drink powders and sugar in water. Add fruit juices and pineapple; chill thoroughly. Makes about 2½ quarts.

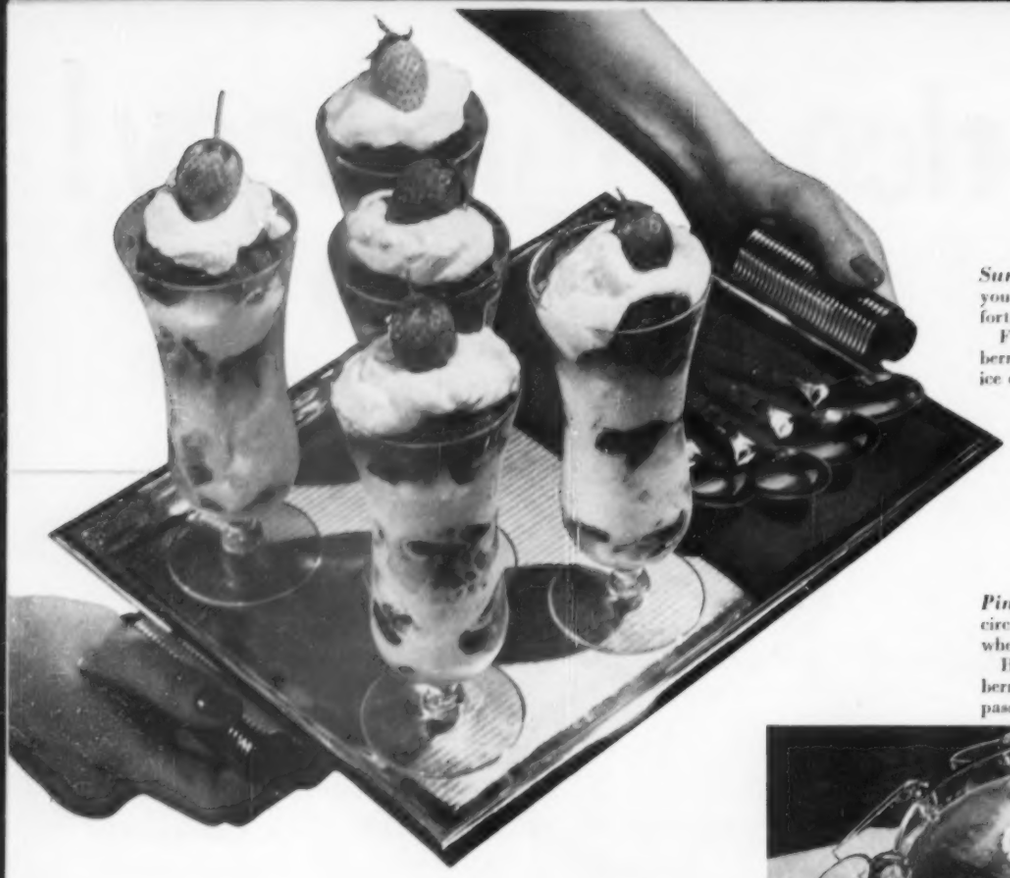
No other rice is this easy!

Another favorite from General Foods

Yes, Minute Rice is really easy! You don't have to wash, boil, drain or steam it. You just add it to boiling water, cover, remove from heat and let it stand a few minutes!

Minute Rice is already cooked! There's never any danger of gummy failure. Minute Rice gives you light, fluffy, perfect rice every time. A delicious way to balance a meal.

Only Minute Rice is perfect every time!



Surprise Strawberry Parfait is a tall, tart cooler you can whip up in lightning speed with minimum effort. And it's such a handsome, tasty treat!

Frozen lemonade concentrate is teamed with strawberries to give them a lemon touch. Layers of vanilla ice cream go between this nippy mixture.

Pink Lemonade, once exclusive to the time when the circus came to town, is a drink you can make and enjoy whenever the fancy strikes you.

Here we show it all prettied up with whole strawberries and lemon-slice daisies. Serve in punch cups; pass dainty cookies to make a delightful twosome.

Photographs: Nelson, Photography, Inc.

Cool off with lemon flavor

By Anne Anderson

IN A QUANDARY as to a new dessert or a refreshing drink? These will add extra spark to late-summer meals—they're lemon-flavored and *good!* Each is frosty cool, ideal for days when the thermometer soars. They are easy to make—you can breeze right along. Besides two new creations like Surprise Strawberry Parfait and Lemon-sherbet Dessert, there are three old-time favorites—with new touches. They're Lemon Ice Cream, Zippy Prune Whip, and Pink Lemonade

More on page 126

Zippy Prune Whip is a happy ending to Mom's delicious Sunday-night supper. Lemonade is the newcomer ingredient. Serve this fluffy dessert in sherbet glasses. For glamour, swirl to a pretty mound and top with a dollop of whipped cream. It's a speedster calling for canned strained prunes to give you a head start

START WITH A DOLLY MADISON CAKE...

DONUT ICE CREAM SANDWICH

Split Dolly Madison Chocolate Donuts in half. Take one pint Neapolitan ice cream from carton and slice into 6 slices. With a cookie cutter the size of donut, cut a circle in each slice of ice cream. Place a circle of ice cream on a half of donut and cover with the other half. Freeze until serving time. These may be made in quantity using other ice cream flavors, such as vanilla, coffee, or butter pecan, and kept frozen for children's snacks or quick desserts.

Variations: Powdered sugar donuts may be used. With these, use strawberry, chocolate, peppermint ice cream or any desired flavor.

CARNIVAL CHOCOLATE CAKE

1 Dolly Madison Devil's Food Cake
Assorted animal crackers
Colored round candies
Walnut halves (optional)
Fresh orange peel
Toothpicks
3 cellophane straws
Varicolored ribbon

Stand assorted animal crackers upright around the outside edge of Dolly Madison Devil's Food Cake. Between the crackers, place colored round candies or halved walnuts. To make scallops around the side of the cake, cut orange peel into half-moon strips and fasten with toothpicks to sides. Finally, take the cellophane straws, tie ribbon flags to them and insert at center of cake. Excellent for a children's party.

Variation: DEVIL'S FOOD SUNDAE—Blend 6 drops peppermint extract into 1 cup chocolate syrup. Top slices of Dolly Madison Devil's Food Cake with a large spoonful of vanilla ice cream. Sprinkle grated nuts generously over cake and ice cream, and top with chocolate mint syrup.

BAKED ALASKA SHORTCAKES

4 Dolly Madison Shortcake Shells
1 pint ice cream (any desired flavor)
3 large egg whites
¼ teaspoon cream of tartar
½ cup sugar

Preheat oven to 500°F. Beat egg whites with cream of tartar until they hold a soft peak. Beat in sugar gradually. Continue beating until meringue is stiff and glossy. Place the shortcake on a baking sheet. In the center place a scoop of ice cream. Completely cover ice cream with a thick coating of the meringue. Place in oven for 3 to 5 minutes, or until meringue is delicately brown. Serve at once. Makes 4 servings.

Variation: FRUIT BASKETS—Fill Dolly Madison Shortcake Shells with well drained fruit salad. Spoon a rim of whipped cream around the edge, and finish with an orange peel "handle."

Cut along dotted lines

Start with a Dolly Madison CAKE

Ready-baked

...and use your imagination!

Plain or glamorized—*ready-baked* Dolly Madison Cakes are always fresh, always delicious, always ready at your food store! Try a Dolly Madison Cake soon... discover how good a ready-baked cake can be

Ask your grocer for extra copies of these recipes

GOLDEN PEACH CUPS

4 canned cling peach halves
Whipped cream or ice cream
4 Dolly Madison Shortcake Shells

Drain peaches well. Place a spoonful of plain or sweetened whipped cream or ice cream in each shortcake shell, and top with peach, cup side up. Serve at once. Makes 4 servings.

Variation: Fill Dolly Madison shortcake shells with prepared butterscotch pudding. Top with cling peach halves, cup side up. Sprinkle with diced, roasted almonds.

Variation: PEACH MELBA SUPREME—Whip ¾ cup raspberry preserves until softened. Blend with ¼ c. canned peach syrup. Place 6 peach halves, cut side up, on Dolly Madison Shortcake Shells. Fill cavity with large spoonful of ice cream, top with raspberry sauce. Serves 6.

Suggested by Helen Tobias of Cling Peach Advisory Board

BANANA ANGEL DELIGHT

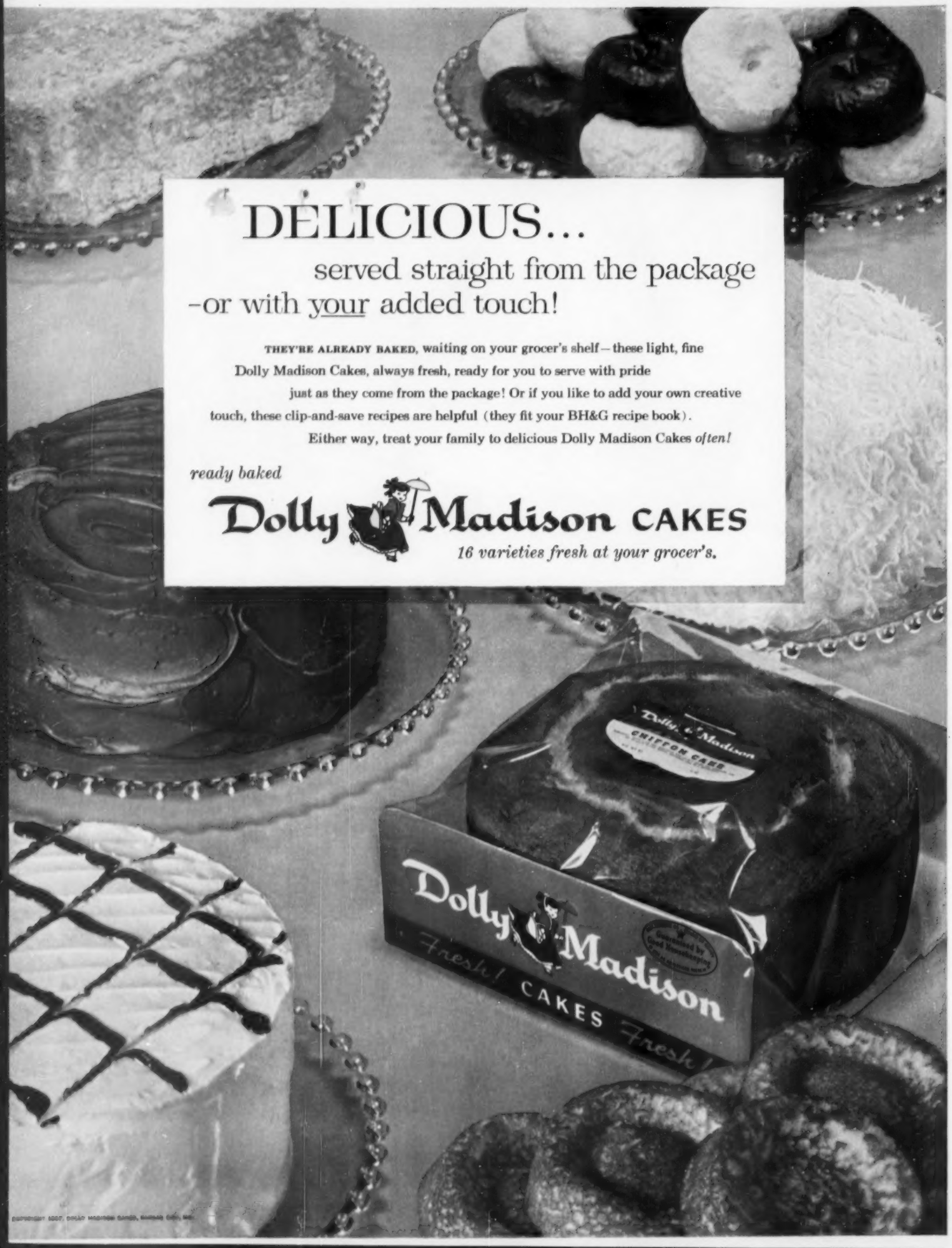
Cut Dolly Madison Angel Food Bar Cake in half crosswise. Cover one half with a thin layer of frosting and top with 3 or 4 whole bananas. (Use fully ripe bananas... yellow peel flecked with brown.) Cover the bananas with additional frosting. Set other half of cake on top. Frost top and sides.

Banana Angel Delight Frosting

2 cups soft shortening
½ cup sugar
1 egg
2 tablespoons maraschino cherry juice
4 teaspoons almond extract
¼ teaspoon salt
red food coloring

Cream shortening well. Gradually add sugar and beat until light and fluffy. Add egg and beat well. Add juice, almond extract, salt. Add coloring, stirring to mix thoroughly after each addition, until desired tint is reached. Mix until very well blended.

Suggested by the Home Economics Department of the United Fruit Company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Dolly Madison
CHIFFON CAKE
Dolly Madison
Fresh! CAKES Fresh!

START WITH A DOLLY MADISON CAKE...

ORANGE WHIP CHIFFON

1 Dolly Madison Chiffon Ring
2 tablespoons powdered sugar
1 tablespoon grated orange rind
½ cup whipping cream, whipped
Fresh or Mandarin orange sections

Fold powdered sugar and orange rind into cream. Ice cake and refrigerate until serving time. Decorate with orange sections.

Variation: CHOCOLATE WHIP CHIFFON – Brown ¼ cup blanched, slivered almonds in 2 teaspoons butter. Melt ¼ cup semi-sweet chocolate pieces and cool. Fold almonds and chocolate into ½ cup whipping cream, whipped. (Chocolate will form flecks.)

MINUTE ANGEL CREAMS

1 Dolly Madison Angel Food Bar
1½ cups commercial sour cream
6 tablespoons light brown sugar
Food colorings (optional)
Candies and nuts for decorating

Cut Dolly Madison Angel Food Bar in half, horizontally, and then crosswise into 1 x 3½-inch bars, or into 1½-inch squares. Combine sour cream and brown sugar. Divide cream sugar icing into three parts and tint each with a different food coloring. Spear cake with a fork to hold while icing. Chill until serving time. Decorate with candies or nuts. Makes about 12 angel creams.

Variation: PINEAPPLE ANGELS – Spoon ½ cup pineapple juice generously over Dolly Madison Angel Food Bar, allowing it to drizzle down the side. Refrigerate for two hours. Top each serving with well-drained crushed pineapple folded into whipped cream.

COCONUT MAYPOLE CAKE

1 Dolly Madison Coconut Cake
Candy stick
Narrow ribbon, various colors
Small round gum drops
Gum drop orange slices (optional)
Toothpicks

To make Maypole, fasten strips of colored ribbon to candy stick. Then stand stick in center of cake, allowing ribbons to hang over side of cake as shown. Gum drop orange slices may be placed around bottom of cake opposite each ribbon. Insert toothpicks into small round gum drops and fasten in pattern to sides of cake between ribbons.

Variation: Make a happy birthday cake with Dolly Madison Coconut Cake. Use pink rosebud candle holders arranged alternately with flat pink mints.

Add these pages to your favorite Cook Book under "CAKES"

DATE CHIFFON CAKE

Slice Dolly Madison Chiffon Cake lengthwise in the center. Spread Date Filling on the bottom layer. Place top layer on the cake. If desired, frost with favorite frosting or thin glaze and decorate with pitted whole dates.

Dromedary Date Filling

⅓ cup Dromedary chopped dates
⅓ cup orange juice
3 tablespoons sugar
1 tablespoon flour
¼ teaspoon grated orange rind
3 tablespoons chopped nuts

Combine dates, orange juice, sugar, flour and orange rind; stir to blend. Cook over low heat until very thick, stir constantly. When cool, add the chopped nuts and spread as a filling between cake layers. NOTE: If cooked until thick and cooled, filling spreads easily and does not soak the layers. Coconut may be added instead of nuts, if desired.

Suggested by Susan Spencer, Dromedary Kitchen

BUTTERFLY CAKE

1 Dolly Madison White Cake
Stick candy
2 gumdrops
Small flat candies (optional)

Cut cake in half vertically. On a cake plate, set halves at right angle to each other with round sides touching. This forms wings. To form antennae, use stick candy of any color or desired flavor, topped with gumdrops. Edges of wings may be decorated with small flat candies, if desired. This makes a decorative party cake that even a youngster can prepare.

Variation: For a young girl's birthday, cut sides of cake may be frosted with additional white icing and dotted with chocolate bits. Place candles along top edges of "wings."

RIBBON ANGEL CAKE

1 Dolly Madison Angel Food Bar
½ cup currant jelly
½ cup mint jelly
½ cup apricot preserves
½ cup whipping cream, whipped

Slice cake into 4 horizontal slices. Spread bottom layer with currant jelly. Top with cake slice and spread this with mint jelly. Top with another cake slice and spread with apricot preserves. Place cake top in position; frost with whipped cream, and chill until serving time. Makes 6 servings. NOTE: Any desired combination of jams and jellies may be used.

Variation: Slice Dolly Madison Angel Food Bar lengthwise into 3 horizontal slices. Spread prepared chocolate pudding thickly between layers. Chill well and frost with fudge icing.

How to get striking effects in small space

By Virginia Colton

A SMALL ROOM can have surprising importance if you choose its decorative elements with care. As for size of furnishings and accents, use just a few and they can be as large as you like. This Chicago home was decorated along these lines with great success. Its rooms are not large, but the selection and scale of furnishings make them striking.

Panels in two colors and two widths double decorative impact of folding screen that divides living and dining area. Shuttered portion of dining wall is extra deep, unused window converted to storage on the top, serving buffet on the bottom

Kenneth McCartney home, Chicago

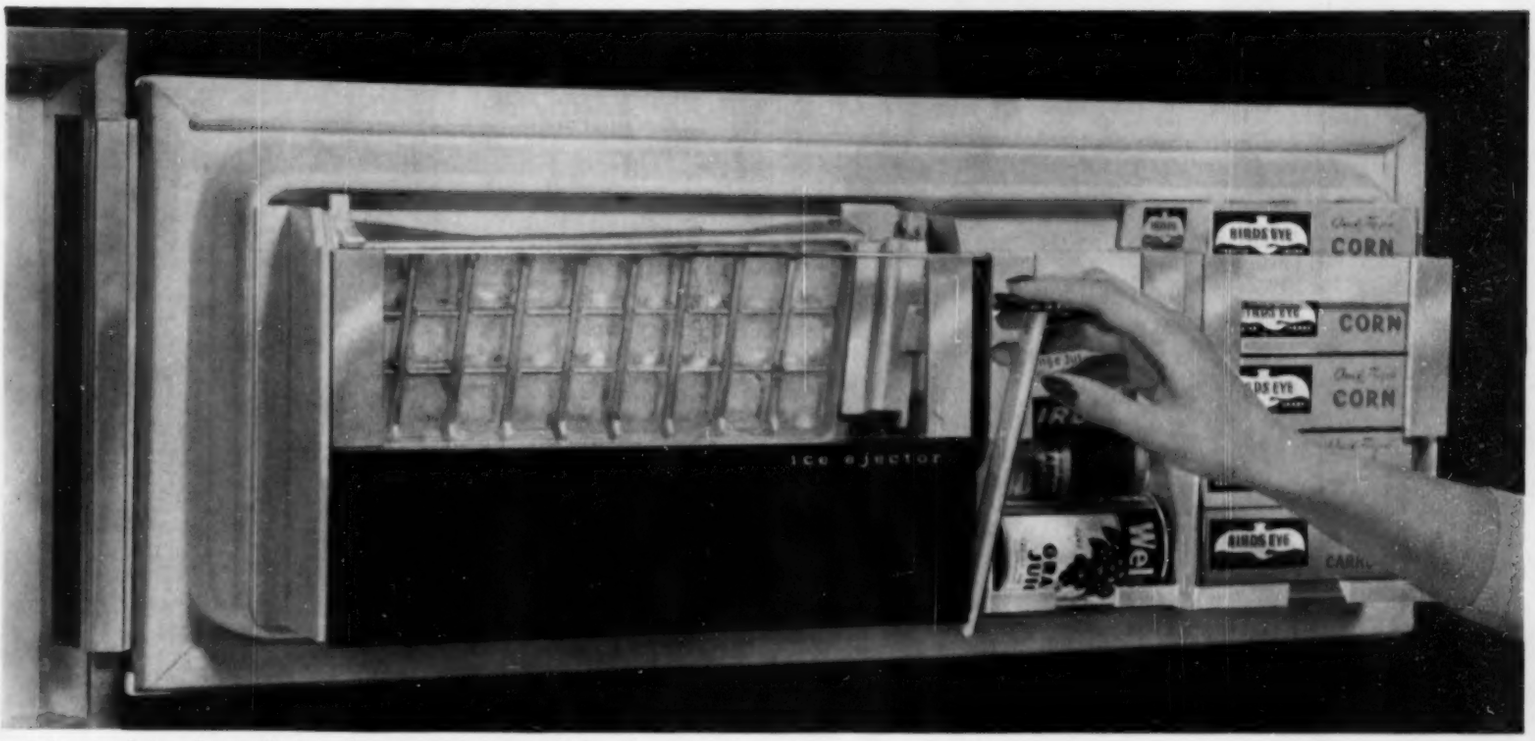
Slim chaise takes up little space, makes big contribution to corner in seating and reading comfort. Table and lamp between chaise and sofa accommodate both. Coffee table in front of long angled sofa is really two triangles placed together. The geometrical drapery pattern is similar in character to shapes of both the tables and the tiles on top

Photographs: Hedrich-Blessing. Decorator: Myrle Todes

Single small painting assumes greater importance in oversize mat and frame. Prints in hall make small wall stand out, are also unusually framed—first with wood, then a double row of brass

Use of diamond pattern on bedspread, extended headboard, and lamp give continuity to bedroom. Giant headboard and canopy are plywood, upholstered with spread fabric, nailed to wall

DRY ICE CUBES IN A BIN —JUST LIKE THIS



At lever touch, ice cubes tumble frosty-dry from tray into serving basket. Always enough ice on hand for lots of tall drinks.

MODEL FI-121-57

Everything in the new Frigidaire Refrigerator lives up to its Sheer Look smartness

From the amazing Ice-Ejector in the separate freezer door to finger-tip service of frozen juice cans—the surprises never cease in this all-new Frigidaire Food Freezer-Refrigerator.

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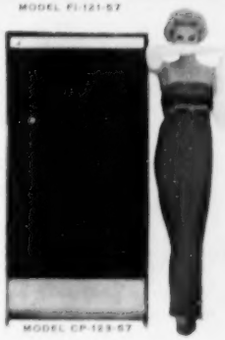

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And to top it all—Frigidaire now sells its four glamorous colors at NO extra charge.

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modern woman's way
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Far more effective than any homemade solution, yet safe for delicate tissues — special preparation for the douche!

Today, discover a wonderful "clean feeling" . . . a refreshing sense of well-being and intimate daintiness you've never experienced before.

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IDEA FILE

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Table actually folds for storage in cold weather. Lift off the top, pull two pins . . . seat and legs unlock and the unit lies flat against a garage wall. Complete construction details in Handy Plan 108. **50c**

Names for newcomers to your family are sometimes a problem. An appropriate common name is one that's not *too* common . . . sounds good . . . is easy to remember . . . denotes the sex of its owner . . . suggests an acceptable nickname.

To help you make your important decision, *Better Homes & Gardens* "A Name for Your Baby" booklet offers 1,200 first names for boys and girls, including origins and meanings. A thoughtful shower "extra" or hospital remembrance. **25c**

Sandbox with sunshade is quite a great favorite among little folks. With step-by-step Handy Plan 143 the family handyman can cut and assemble it in one weekend.

In bad weather, versatile canopy fits snuggly down over sandbox to keep sand dry. On hot days, it raises 4½ feet on sturdy posts to shelter youngsters. Box is 45x70 inches . . . 9½ inches high. Corner posts swing down for storage, hook securely in top when in use. Order Handy Plan 143. **50c**

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(yes...even to perfect whiteness)

Brightens colors too!

A wash that's merely white is no longer the best you can do. Now all-purpose Surf has a special brightener that puts ultra-violet rays (like those in sunshine) to work for you. Surf actually adds brightness—even to perfect whiteness. Brightens colors, too. Try today's Surf and see. If you don't get the whitest, brightest wash ever, Lever Brothers will refund every penny.

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Bring out all the natural, delicate flavors with

POMPEIAN
Pure Virgin Imported
OLIVE OIL

2 oz. to 1 gal.

Insist on POMPEIAN . . . oil from choicest olives.
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Dial Roast Meat Thermometer
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Liquid-in-glass Roast Meat Thermometer
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Taylor Instruments
MEAN ACCURACY FIRST

Cool off with lemon flavor

Begins on page 118

Lemon Ice Cream — a tempting dazzler that's so creamy you hardly know you're eating it till you taste the tang. Results with this recipe are always the same — perfect, even for beginners at ice-cream-making. If you like, pass a plate of rich chocolate cupcakes, too.

Lemon-sherbet Dessert is another quickie. It's frozen, of course, but is light and fluffy, too. Graham-cracker crumbs make the bottom layer and design on top. Serve in your favorite dishes and trim with lemon-slice "blossoms" and green leaves, as you see at the left.

Surprise Strawberry Parfait

You can taste the delightful flavor of tangy lemonade with each spoonful—

- 1 6-ounce can frozen lemonade concentrate
- 1 cup sliced sweetened drained strawberries
- 1 quart vanilla ice cream
- Heavy cream, whipped
- Whole strawberries

Combine concentrate and sliced strawberries. Alternate layers of strawberry mixture and ice cream in parfait glasses, starting and ending with strawberry mixture. If you like, top each with a fluff of whipped cream and a big strawberry for added color. Makes 6 servings.

Pink Lemonade

As special back-yard or porch treat for kiddies, serve it in gay paper cups—

- 2 12-ounce cans frozen lemonade concentrate
- 2 12-ounce bottles strawberry-flavored carbonated beverage, chilled
- Lemon slices
- Strawberries

Add water to concentrate as directed on can; pour into punch bowl. Just before serving, add ice cubes and pour strawberry beverage down side of bowl; mix. Float lemon slices with strawberries atop. Makes about 30 to 35 punch-cup-size servings.

[*Turn to page 128*

Pamper Pop the stylish way !

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Any father worth his salt *(and whose father isn't?)* deserves super treatment on "His" day. Give him a BarcaLounger. He'll feel like a king every time he leans back and lets BarcaLounger's famous "Floating Comfort" urge him to relax his weary bones and tense nerves. Mom will love it, too, because decorator styled BarcaLoungers blend so well with any interior. Widest choice of styles, colors, sizes and covers, including genuine imported glove-soft leather, at fine furniture and department stores everywhere. Don't be fooled by imitations . . . insist on the one and only BarcaLounger. Look for nameplate under the leg-rest. For illustrated booklets and name of nearest dealer, write Dept. 6-B, Barcalo Manufacturing Co., Buffalo 4, N. Y.

FATHER'S DAY IS JUNE 16

GIVE HIM A GENUINE BarcaLounger PATENTED

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Absorbent mineral BAR-B-SORB, used under charcoal, absorbs drips . . . keeps fire-box clean . . . cuts flare-up . . . no more greasy gravel to clean up! Use BAR-B-SORB over and over, then dump in garden or lawn—it conditions soil! Make outdoor cooking all fun, no fuss . . . get the big box where you buy charcoal.

AT GROCERY, DEPARTMENT, DRUG, HARDWARE STORES

Cool off with lemon flavor

Continued from page 126

Zippy Prune Whip

A superspeedy way to make this luscious dessert—

2 egg whites
⅓ cup sugar
2 tablespoons frozen lemonade concentrate
1 4½-or 5-ounce can (½ cup) strained prunes
Heavy cream, whipped

Combine egg whites, sugar, and lemonade concentrate in double boiler. Cook over boiling water, beating constantly with rotary or electric beater till mixture fluffs up and holds shape, about 4 or 5 minutes. Remove from heat; fold in prunes. Cool. Spoon into sherbet glasses. Top with whipped cream. Makes 4 servings.

Lemon Ice Cream

If you prefer less nip, use frozen or canned lemon juice and omit the lemon peel—

2 eggs
½ cup sugar
1 cup milk
1 cup light cream
½ cup light corn syrup
1 teaspoon grated lemon peel
¼ cup lemon juice

Beat eggs till fluffy; gradually add sugar and continue beating till mixture is thick. Add remaining ingredients and blend. Pour into refrigerator tray. Freeze firm; break in chunks; beat with electric beater till smooth.* Return to cold tray; freeze firm. Makes 6 servings.

*Or freeze till partially frozen; beat smooth with rotary beater.

Lemon-sherbet Dessert

Delicious, too, made with canned or frozen lemon juice and no peel—

3 egg yolks
½ cup sugar
2 teaspoons grated lemon peel
¼ cup lemon juice
1 cup heavy cream, whipped
3 stiff-beaten egg whites
¾ cup graham-cracker crumbs

Beat egg yolks until thick and lemon-colored; gradually beat in sugar. Add lemon peel and juice. Fold in cream and egg whites. Cover bottom of two 1-quart or one 2-quart refrigerator tray with ½ cup of the crumbs. Pour in sherbet mixture. Top with remaining crumbs to form design. Freeze firm. Makes 8 to 10 servings.

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. . . let us know at least five weeks ahead of time what your new address will be. You'll be ensuring uninterrupted delivery of your *Better Homes & Gardens* just when you'll be needing it most.

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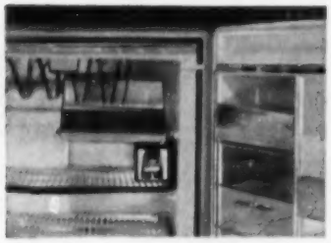
NEW RCA WHIRLPOOL REFRIGERATOR-FREEZER

with new and exclusive Air Purifying System!



Exclusive Air Purifying System passes air in refrigerator through ultra-violet rays that retard the growth of airborne bacteria and mold—combat "refrigerator odor."

No pans to empty—nothing to remember! Automatic defrosting in refrigerator gets rid of frost almost before it forms—evaporates defrost water automatically.

Ice ejector zips cubes out, stores them ready for use. Just push the control *inside* freezer and the Ice Tray Filler* fills tray with fresh water—then turns itself off.

keeps foods fresher—longer...gives you automatic defrosting...makes "push-button ice"!

15.5 cu. ft. Model DI 158 shown by TV star Fran Allison has 10.7 cu. ft. refrigerator above, 166 lb. freezer below. Matched pair shown are—12.6 cu. ft. Mark XII Refrigerator and "twin" 429 lb. capacity Mark XII Freezer.

*optional at slight extra cost

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TWIN CRISPERS
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CHEESE-BACON KEEPERS
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JUST THINK OF IT! Rich-tasting Vanilla, Chocolate and Butterscotch puddings especially made for you weight watchers.

THESE NEW D-Zerta Puddings contain no sugar,* but they have all the sweet, satisfying goodness of America's best-liked puddings.

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Compare the calories in one serving	
Apple pie à la mode	524
Butterscotch sundae	409
D-ZERTA PUDDING *with whole milk*	94
D-ZERTA PUDDING *with skim milk* (*with strawberries 68*)	54
D-ZERTA GELATIN	12

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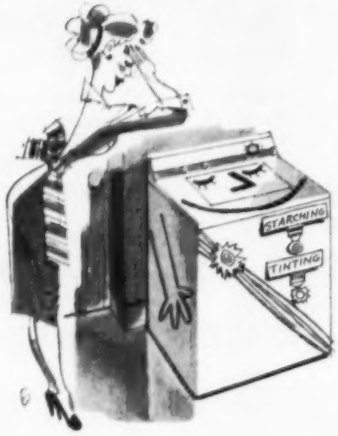
D-ZERTA PUDDINGS and GELATINS

Tips for starching and tinting in your washer



For service above and beyond the call of duty!

Besides top-notch laundering, your automatic washer comes through with flying colors on both of these tests, too—starching and tinting.

So why not let your washer take over these jobs? For know-how, follow the hints below.

Starching in your automatic washer saves you time and work, gives clothes an even starch finish. It's grand for bulky cotton curtains, draperies, slipcovers that are hard to handle by hand (especially when wet). It's a snap for doing a roomful of sheer curtains at the same time and getting the same finish for all of them.

Experiment to find the starch you prefer, the one that works best in your washer. Always read directions on package or container for amounts, right way to mix.

If you have dryer, you may have to use a little heavier starch solution than normal. Always dry starched clothes together—do not mix with unstarched clothing. Save work by removing clothes when there is just enough moisture for ironing; iron, or fold loosely and place in plastic bag for ironing later. No need to sprinkle!

There are two good ways to use your washer for starching. (1) Make a full load by sorting clothes before washing; put all colorfast cottons that will need starching in one load. (2) After washing, save the "starchables" from each load and at the end of your laundry job put all through a separate starch rinse at one time.

Steps for washer-starching

1 See sorting tips above.
2 Wash clothes as usual, completing wash, rinse, and spin cycles. Do not remove clothes (unless you follow second "sorting" method, save starchables from each load).
3 Mix starch according to package directions, taking into account the water required for your washer.
4 Turn the washer back to "wash," "fill," or "final rinse," and use just enough water (warm or cold, depending on starch used) to cover the clothing. Lucky you, if you have a water-level control for small loads.
5 Add prepared starch. (*Note:* For front-loading washers, add starch *before* filling with water.)
6 Let clothes go through "wash" or "final rinse" cycle, depending on which you use. Then let clothes go through the next spin period for about 2 minutes. Stop washer.
7 Put clothes in dryer (see tips above) or hang to dry.
8 Important: Damp-wipe or rinse [*Turn to page 183*

PROVINCIAL HIDE-A-BED sofa . . . wing-curved back and box pleats. Wide range of Provincial prints. From $279.50 depending on choice of fabric.

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Famous foods from famous places

Begins on page 88

weeks—even for burgers. The Inn manager, Bob Foss, and his staff, have their favorite cattlemen, take their choice of the beef animals arriving at market.

Enter first the Sirloin Room and pull up a Hereford calf-hide chair. Although this is a family restaurant, the food and Western atmosphere are masculine gender. Folks ordering steak, stroll over to the "steak throne" (see picture on page 89) to feast their eyes on the mouth-watering display, then to pick and choose. Chef Arnold Neesen who directs the food service says the women are better informed than the men about the kinds of steak—men are most impressed by size. Today 90 percent of the patrons order rare or medium-rare beef; five years ago they ordered medium or well done. Neesen is pleased with this switch.

Come dessert time, a pretty "cow-girl" wheels a pastry cart to your table. These pastries are not the delicate French-puff type—they're hearty pies and cakes that appeal to men's appetites.

The Matador Room is decorated in Spanish style. On display is the regalia of the bullfighter's art, a collection brought from Spain by William Wood Prince, son of the founder. Traditional Spanish dishes are featured.

In the Postillion Room you may dine while sitting on coach seats! Here handsome antique harnesses are the decoration.

In all three restaurants, beef is king, but it is the Sirloin Room "where the steak is born."

Steak tips from the Sirloin Room

Below are Chef Neesen's words of wisdom.

How done? Chef Neesen claims steak should be cooked rare or medium rare, only. He cringes when a guest requests "well done," puts a little black plastic steer atop the steak as it comes to the table. "Rare" rates a little red steer of approval.

In broiling, Neesen controls the heat by raising or lowering the grill just as a barbecue chef does. This is his technique for steak: Put it on the grill and sear it on one side for 30 seconds. (Meat will look pale tan.) Then flip it and sear other side. He finishes the cooking at lower heat. Of course, he's careful in turning steak that his fork tines pierce the fat only—no meat juices run out that way.

Touch-test to tell "when": You can learn to use your finger to tell when steak is done to your liking, advises Mr. Neesen. Steak will feel real bouncy when rare. The firmer the steak the less resilient—well-done meat is about as springy as leather. This technique is hard to put into words, but outdoor chefs can soon pick it up with practice.

Grilled cubed steak. Give it 1½ minutes on each side over the coals.

Chopped-round or chuck steak. At the Sirloin Room, the chef likes to add 20- to 25-percent kidney suet to lean beef while it's grinding—patties will be tender and juicy.

Below are prized recipes from the famous Stock Yard Inn. Try them, and your family, like the Inn's customers, will ask for these favorites again and again.

Spanish Rice

At the Matador Room, it's seasoned with Spanish saffron. Elegant with thick, juicy slice of roast beef—

1 chicken gizzard, chopped fine
1 tablespoon butter
2 chicken livers, chopped fine
¼ cup finely chopped Spanish onion
1 tablespoon finely chopped shallot or green onions
1 small clove of garlic, chopped fine

• • •

1 cup chicken broth
½ teaspoon salt
½ cup converted long-grain rice

• • •

⅛ to ¼ teaspoon Spanish saffron
½ cup diced tomato

Saute gizzard in butter 3 to 5 minutes or till almost tender. Add livers, onion, shallot, and garlic. Saute till tender but not brown. Add chicken broth and salt; bring to a boil. Add rice and bring to boiling. Turn heat low; add saffron and tomato. Cover and cook *slowly* 20 minutes or till rice is done. (Do not remove lid. Do not stir and do not boil.) Makes 4 servings.

Stock Yard Inn Special Dressing

Serve this delicately curried dressing on crisp lettuce as a salad to go with roast beef or steak—

1 cup dairy sour cream
2 tablespoons mayonnaise
¼ cup light cream
½ teaspoon curry powder
½ teaspoon Worcestershire sauce
½ teaspoon steak sauce
½ teaspoon horse-radish
½ teaspoon dry mustard
1 small clove garlic, minced
2 dashes Tabasco sauce
Dash salt
Dash white pepper

Combine all ingredients and mix well. Keep refrigerated. Spoon over limestone lettuce. Makes 1¼ cups.

Cold, Marinated Beef Slices

Absolutely can't be beat as an appetizer. Sour cream and lemon juice accent the beef flavor—

½ pound cooked sirloin steak *or* beef roast
1 small onion, thinly sliced and separated in rings
¾ teaspoon salt
Dash pepper
1½ tablespoons lemon juice
1 cup dairy sour cream

Slice cooked sirloin in julienne strips. Add sliced onion, salt, and pepper to taste. Sprinkle lemon juice over meat mixture and mix in sour cream. Chill. Serve in crystal dishes lined with leaf lettuce. Trim with strips of pimiento and green pepper. Top each serving with ripe olive and tuck in lemon wedge. Makes 6 servings.

Dutch-shoe Potatoes

You just can't imagine how really cute they are! See for yourself—

Choose Idaho baking potatoes about 5x2½x2½-inch size. Cook potatoes in jackets in boiling, salted water till partially done (about 20 minutes); drain; peel. With knife, "whittle" about ½ inch off top of each potato, cutting slight "dip" in center. Round bottom slightly. "Whittle" point on one end for toe of shoe. Beginning about 1½ inches from toe, scoop out an oval about 2½ inches long and 2 inches wide, leaving about ¼ inch around sides. On outside, cut off a sliver of potato near tip of toe so it "turns up" slightly. Shoe should be about 4 inches long, 2 wide, and 1½ high. Fry in deep, hot fat (370°) about 3 minutes or till golden brown and cooked through. Drain on paper towels. To serve, sprinkle Dutch-shoe Potatoes with salt and fill with hot buttered peas.

Duchess Potatoes

This is the way to fix potatoes when you have planked steak for a company dinner. They're fluffy, yet stiff enough to keep their "figure"—

5 large Idaho potatoes
2 tablespoons butter
3 egg yolks, well beaten
Salt to taste
White pepper to taste

• • •

2 tablespoons melted butter

Mash potatoes well. Add 2 tablespoons butter, the egg yolks, salt and pepper; mix well. Use pastry bag to form border of potatoes around *broiled* steak on plank. Drizzle potatoes with melted butter. Broil 3 to 4 inches from heat about 3 minutes or till lightly browned.

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Buy for your dryer—it's another way to save time, work, money.

In no time at all you'll become an expert on what works best for your family . . . and your dryer.

Here you see just a small sampling that can skip ironing: synthetic fabrics, terry cloth, quilted fabrics, seersucker, corduroy, and special-finish or treated fabrics. Investigate the possibilities.

Skip ironing . . . with your dryer!

Slipcovers that are washable and colorfast can save you work, too. Remove slipcover from the dryer while still slightly damp to the touch. Sparing no minutes, fit it back on the chair or other furniture.

Pull the ruffles or flounces so they are smooth and orderly. Wrinkles will "dry" out, slipcover will be glove tight. If ruffles are extra fussy, press with your steam iron.

No ironing needed for sheets, pillowcases, and dish towels if you take them out of your dryer when still barely damp. Smooth them out and fold them while still "toasty." Park atop the warm dryer to finish drying.

Just stash them away in your linen closet . . . job is all done. The heat, the one-two-three with your hands, and weight of the folded fabric will do the "ironing."

More on next page

Tips to get the most from your dryer

- First and most important: Do not overdry clothes. Overdrying may result in wrinkles you'll only have to iron out later. In fact, in some fabrics, overdrying may set wrinkles permanently.
- Sort dryer-going clothes as for your washer. A good rule: A load for the washer is a load for the dryer. Colorfast, light-color and white clothes that have been washed together may be dried together. Dry dark clothes with other darks.
- Experiment with your dryer for the best drying times for all your clothes. Keep a "working" chart in your utility room so you can make revisions, add new items. The small effort of checking clothes as they dry is well worth the ironing you'll be spared later on.
- If doing a whole wash at one stretch, dry "damp-dry" loads first. Then you [*Turn to next page*

Photographs: Hopkins

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Mrs. Doris Durborow of Springfield, Pa. has tinted all kinds!

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Skip ironing . . . with your dryer!

Begins on preceding page

can begin to iron them while another load is drying. Save slow-drying heavy fabrics, towels for last.

- To test for dryness, draw a corner of the garment out of dryer and into the cooler room air. It'll feel drier than if tested in moist heat of drum.
- Dry starched clothes in a separate load. Do not over-dry. You'll find them easier to iron if you take them out when they're still damp.
- Remove clothes just as soon as dryer stops. Don't let them pile up. It'll only cause wrinkles.
- Use dryer to "press" clothes that have "wear" wrinkles. Put clothing in with couple of damp, colorfast sponges, let tumble a bit till wrinkles are out. Hang garment up.
- Get acquainted with your dryer. Read the manufacturer's instruction book to see what your dryer can do for you, how the controls work.

The boys' and Dad's T-shirts shrink no more in the dryer than in the washer . . . if you do right by them. That means no *overdrying!*

Smart is the gal who measures T-shirts (width and length) when they are new. Keep the measurements for all on card in utility room; check T-shirts after each drying. Rescue from dryer when slightly damp. Stretch to size, park on warm dryer to finish drying.

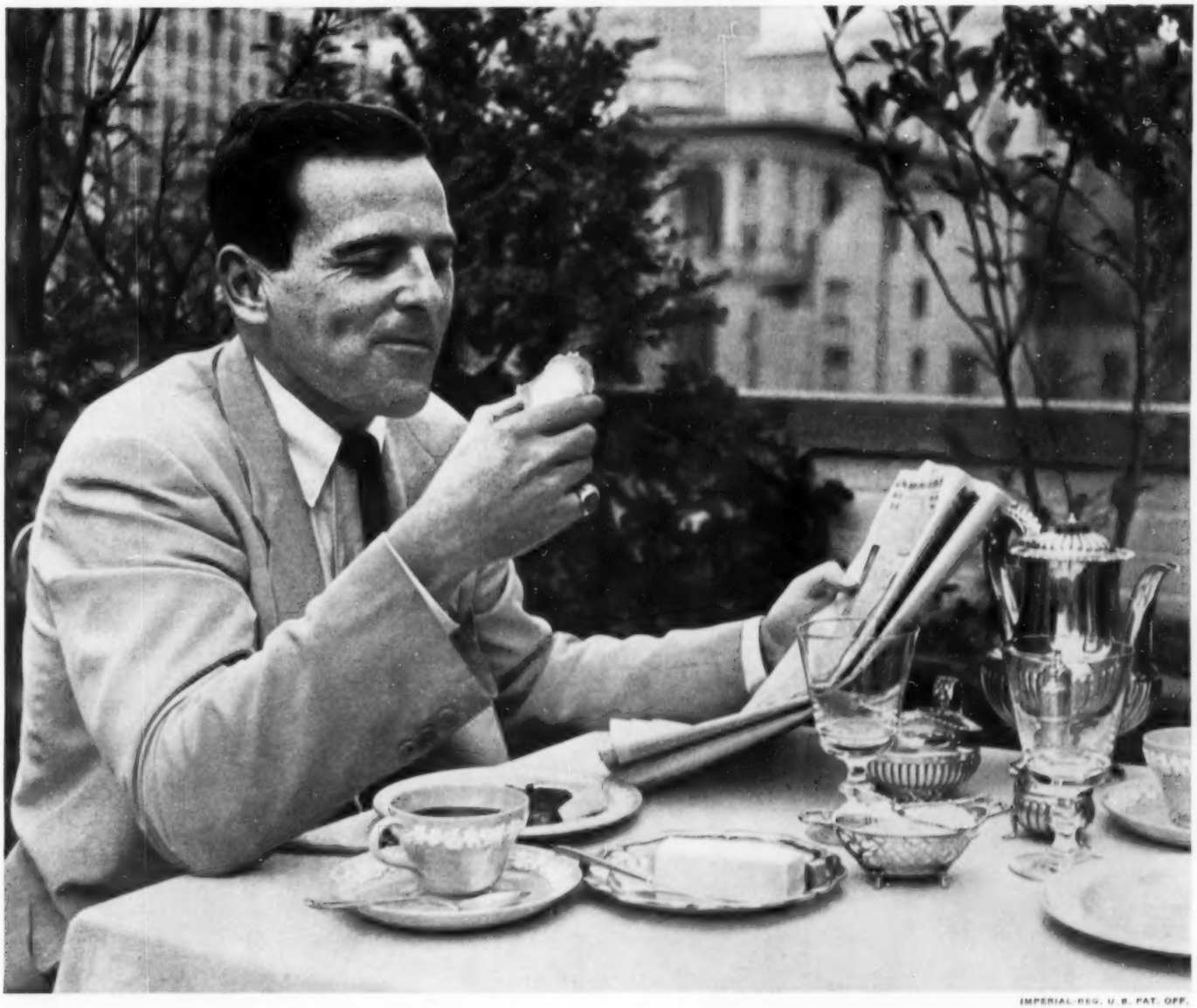
Starched clothes are best dried without the unstarched. You'll save time, work if you take them out of dryer when damp "just so" for ironing.

Iron while another load dries in the dryer. Or pop into plastic laundry bag for ironing later. In summer, store dampened clothes in refrigerator.

To avoid unnecessary wrinkles, fold clothes loosely—no fair squeezing! Ironing will go lickety-split because of the allover even dampening.

More on page 139

Really new taste discovery!



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P. S. To keep it fresh, always keep it refrigerated.

On Mary Martin's opening nights the two most excited people are her husband-producer Richard Halliday, and their daughter, Heller. The Hallidays have a talent for giving each other deeply satisfying presents. Like her father's idea of starting 15-year-old Heller on her sterling silver. "I've chosen a beautiful new Heirloom* Sterling pattern called Flower Lane," says Heller. "It's a dream!"

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Skip ironing . . . with your dryer!

Continued from page 136

Chintz and the special-finish cottons used so frequently in dresses, blouses, skirts are a boon to the mother with "little young ladies" who can soil these outfits faster than Mother can iron them.

Sort these cottons, dry no more than three or four at a time. Remove slightly damp.

Straighten collars, seams, ruffles, belts. Dry on plastic hanger at room temperature.

Weights (such as the plastic snap-on clothespins here) will take puckers out of some of those troublesome seams that tend to "creep" up.

You'll get slick results if you take such fabrics (seersucker, plisse) out of your dryer when still damp.

Hang on rustproof hanger, pull seams straight, snap on the clothespins, and dry where there's good air circulation.

Synthetic-fabric shirts for Dad are also a treat for Mom — lets her forget about the tiring shirt-ironing chore.

The dryer will fluff out any wrinkles caused by wringing or spinning. It's important to use a low temperature.

The trick, however, is still to get the shirt out of the dryer *before* it is completely dry. Finger-press the collar, cuffs, and front while damp.

Hang on plastic hanger to finish drying. Presto! It's done with least effort from Mom.

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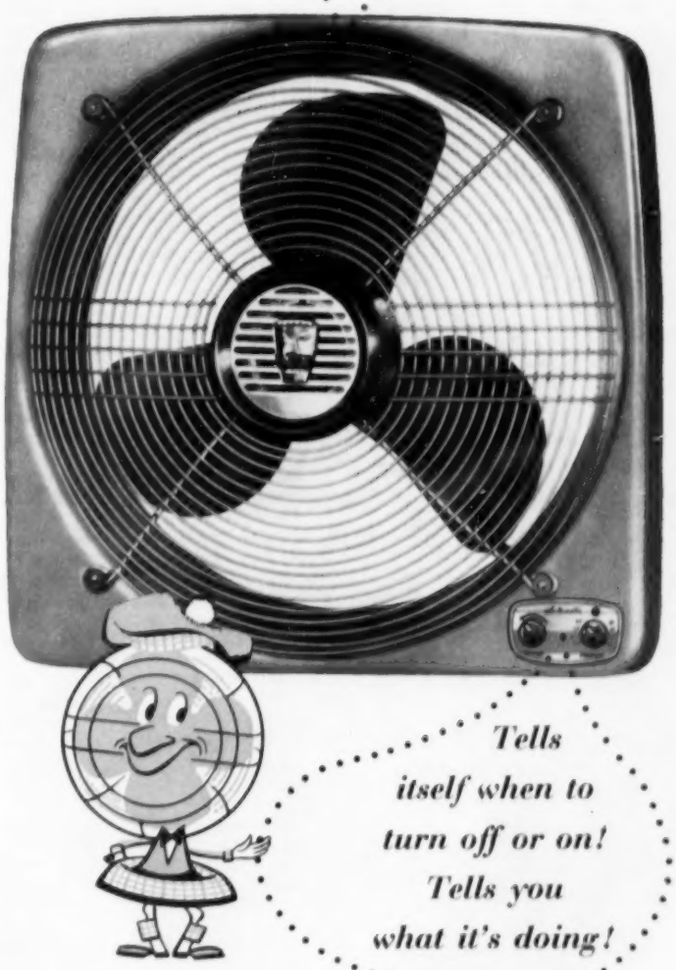

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do both jobs better than any detergent ever made!

***dishwasher all** is a companion product to Super-Rinse **all**—largest selling detergent exclusively for automatic washers.*

MONSANTO

Barbecues that cost less than steak

Continued from page 87

Smoke-cooking review

To come by that distinctive, pungent smoky taste, you can either cook full time in hot smoke (hickory-barbecue) or toss hickory on the coals at the last.

True smoke cooking is a long, indirect-heat process that requires a smoke cooker with full hood, charcoal oven, or Chinese oven. Dense hot smoke rolls over and around the food. This permits the meat to cook without being placed directly over the fire. The idea is to prevent the drippings from falling onto the coals. Fire's at one end, the food at the other. Source of the smoke is dampened hardwood (like hickory chips or shavings) almost smothering the charcoal fire.

The slower the smoke cooking (much longer than over the coals), the better and more piquant the flavor. There's no need to turn the food—just put it on the grill. It browns on all sides automatically. If you like, marinate meat ahead and/or brush with a thin barbecue sauce.

Other types of grills in which food goes directly over the fire can give somewhat the same effect if the cooking area is entirely enclosed and covered with a lid. With this equipment, the meat is over the fire. It will cook in smoke from its own drippings combined with smoke from hickory added to the coals. When grill lid is on, meat drippings will smoke but not flare up, and it is necessary to turn the food only once.

For best results, consult the directions that come with your equipment for adjusting the firebox and draft, and for cooking times. With a little experimenting you'll be an expert.

Open grill "smoking." With open grill or rotisserie, you charcoal-broil meat on both sides; then toward the end of cooking, toss on damp hickory.

Hickory know-how. With hickory sawdust or flakes, you just dampen it with water at about the time you start the fire. If you choose hickory hunks, crosscuts, or bark, soak in water an hour. (Or you might choose mahogany chips or a fruit wood. Orangewood gives seafood wonderful flavor.)

Let a charcoal fire burn down to low, even heat, before adding dampened hickory.

Brush-on smoke flavor. For hurry-up or indoor barbecues you can brush bottled liquid smoke on burgers or steaks before broiling—or add it to the barbecue sauce. Or sprinkle meat with smoke salt before cooking.

Here are our good recipes for happy barbecues. Out to your yards, everyone, for the time of your life!

Whopper-burgers

Two juicy meat patties in one—and there's a surprise in between!—

2 pounds ground beef*
Salt and pepper
Prepared mustard

Pickle Filling: pickle relish and ½-inch cubes of sharp process American cheese

OR

Smoky Filling: thin onion slices, each with slice of smoky-cheese roll atop

Using a ⅓-cup measure, divide ground beef in 10 mounds. With pancake turner, flatten each between squares of waxed paper to a little less than ½ inch (patty should measure 4 inches in diameter). Set half the patties aside for "lids." Sprinkle remaining patties with salt and pepper, then spread with prepared mustard, leaving ½-inch margin for sealing. Top with a mound of Pickle Filling *or* with Smoky Filling—slice of onion with round of smoky cheese. Cover filling with "lids," sealing edges well. Place on greased grill or spread both sides with soft butter or margarine. Season top side with salt and pepper. Broil over hot coals about 10 minutes; turn; broil about 10 minutes more or till done to your liking. Season second side. Slip patties into hot toasted buns. Makes 5 Whopper-burger wonders. **Tasting-Test Kitchen note:** For leakproof seal and good "figure," press edges of burgers all around on top side; turn; seal again.

*If meat is lean, have about 2 ounces of suet ground with each pound. Burgers will be juicier and more tender.

Barbecued Lamb Riblets

This delicately flavored catsup sauce does great things for lamb—

3 to 4 pounds lamb riblets, cut in serving pieces
Salt and pepper

• • •

¾ cup catsup
¾ cup water
½ cup chopped onion
3 tablespoons lemon juice, fresh, frozen, or canned
3 tablespoons Worcestershire sauce
2 tablespoons vinegar
2 tablespoons brown sugar
1½ teaspoons monosodium glutamate
¾ teaspoon salt
Dash Tabasco sauce

Brown riblets* on grill over hot coals with hickory added (takes about 15 to 20 minutes). Season with salt and pepper. Meanwhile, combine remaining ingredients. Transfer meat to skillet and pour the sauce over. Cover tightly; simmer (don't boil) 1 to 1¼ hours or till tender. Remove excess fat. Pass bowl of sauce with riblets. Offer lemon wedges, if desired. Makes 4 or 5 servings.

*Before browning meat, place aluminum-foil "boat" (2 thicknesses of household-weight or 1 of

More recipes on next page

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heavy duty) over the coals to catch drippings. Remove after browning.

Hobo Rice

Here's a fun trick that gives a carefree air to your campfire cooking—and good eating with lamb, steaks, or burgers—

Put 1½ cups water and ½ teaspoon salt in a 1-pound-size coffee can. Heat to boiling over the coals on grill. *Remove from heat* and add one 5-ounce package (1⅓ cups) precooked rice; stir just to moisten. Cover coffee can tightly with lid and set at grill-side, *away from heat;* let stand 13 minutes to fluff. Makes 3 cups rice.

Silver-plated Pot Roast

Out-of-this-world flavor. Don't miss this— it's a treat!—

4 pounds blade-bone pot roast, 1½ inches thick
Salt and pepper
• • •
3 tablespoons enriched flour
1 tablespoon brown sugar
1 teaspoon salt
Dash pepper
½ teaspoon dry mustard
¾ cup catsup
1½ tablespoons Worcestershire sauce
1 tablespoon vinegar
• • •
Aluminum foil
• • •
1 or 2 stalks celery, sliced on bias
1 or 2 carrots, sliced
1 medium onion, sliced

Brown roast slowly on grill over hot coals with hickory added, about 20 to 30 minutes. Season well with salt and pepper. Combine next 8 ingredients for sauce. Tear off 5-foot length of household-weight aluminum foil; fold double (or use 2½ feet heavy-duty foil). Spoon *half* of sauce in center of foil. Place meat atop and cover with vegetables and remaining sauce. Fold foil over and seal securely; bake over slow coals (have a double thickness of extra foil on grill) 1½ to 2 hours or till tender. Makes 6 servings.

Foil-grilled Green Beans

Easy way for "outdoor" vegetables—

Place one block of frozen green beans (or other frozen vegetable) on big square of aluminum foil. Top with a pat or two of butter or margarine. Bring edges of foil up and, leaving a little space for expansion of steam, seal tightly with double fold. Place this trim package on grill or right in the hot coals about 10 to 15 minutes.

Roasting Ears

Over the coals, corn takes on an almost-caramel flavor and kernel tips turn taffy color—

Turn back husks and strip off silk. Lay husks back in position. (Some folks prefer flavor of corn roasted with silk left on. Choose *perfect* ears, cut off end, and roast as is. When done, silk will strip off clean with the husks.) Line ears up on grill over hot coals. Keep turning ears 15 or 20 minutes, or till husks are dry and browned. (Corn will look sun-tanned. For browner, sweeter corn, continue roasting to suit yourself.) To serve, break off husks. Now on with plenty of butter, salt, and pepper. **Note:** You may hickory-barbecue the corn. Place ears (in husks) on grill. Add hickory to hot coals; cover with hood and cook about 1 hour.

Hawaiian Short Ribs

Ribs sport a beautiful glaze. Sauce is mildly sweet and just a bit ginger-y—

3 to 4 pounds lean beef short ribs, cut in serving pieces
Nonseasoned meat tenderizer
• • •
1 No. 2 can pineapple slices
⅓ cup soy sauce
¼ cup honey
1 tablespoon ginger

Trim off excess fat from ribs. Sprinkle meat evenly on all sides with tenderizer, using ½ teaspoon per pound. *Do not use additional salt.* With long-tined fork, pierce all sides of meat deeply. Place meat in single layer in baking dish; let stand 30 minutes at room temperature. Drain pineapple, reserving ⅔ cup syrup. Combine pineapple syrup with soy sauce, honey, and ginger; pour over ribs; chill 2 to 3 hours. Drain ribs, reserving sauce. Place bone side down on grill. Add dampened hickory to coals and close smoker hood. *Slowly* hickory-barbecue* 1¾ to 2 hours or till meat is tender, brushing frequently with the sauce. Five or 10 minutes before meat is done, brush pineapple slices with the sauce; place on grill with ribs. Heat sauce and serve with the short ribs. Makes 4 servings.

*If fire is too hot, place aluminum foil over the coals to deflect the heat.

Hickory Brisket Slices

Outdoor chefs, you can't do better than this at any price! Just the answer when you invite 25 or 30 people—increase recipe to fit your needs—

4 pounds fresh beef brisket
Salt
• • •
1 14-ounce bottle catsup
¾ cup chili sauce
¾ cup brown sugar
¾ cup wine vinegar
¾ cup water
½ cup lemon juice
¼ cup steak sauce
¼ cup prepared mustard
2 tablespoons Worcestershire sauce
1 tablespoon soy sauce
2 to 3 teaspoons celery seed
1 clove garlic, minced
Dash Tabasco
Freshly ground pepper to taste

Place brisket on grill of barbecue smoker, away from the hot coals. Sprinkle meat with salt. Add some dampened hickory to the coals and close smoker hood. *Slowly* hickory-barbecue 4 hours or till meat is tender. (After 1 hour a piece of foil may be placed on grill.) Slice very thin, making ⅛-inch slices (use slicing machine). Line up slices in shallow foilware pan. Combine remaining ingredients for sauce and simmer 30 minutes; pour over the meat. Heat 1 hour in smoker with slow coals. Makes 8 to 10 servings. **Tasting-Test Kitchen note:** You

[*Turn to page 154*

a meal all the family will enjoy

Tonight, enjoy the heavenly flavor of true "down east" baked beans — B & M. Baked with a marvelous brown sugar sauce in real old-fashioned brick ovens, they're a flavor treat you can eat and eat and eat!

BRICK-OVEN BAKED BEANS

Burnham & Morrill Co., Portland, Me.

What a

Dream

of a

room air conditioner!

The "apple of your eye" needs the sweetest sleep you can provide. A Frigidaire Room Air Conditioner in the window circulates air as cool and clean and pleasant as a kite-flying breeze, and fills the whole room, not just a part of it, with gentle billows of sleeping comfort.

Frigidaire Room Conditioners are silenced, compact, smartly styled—so generous in their volume of clean, cool air—so lasting in service—so simple to install—and best of all, at a price you can afford.

See the many models at your Frigidaire dealer's. Compare styling, capacities, construction. Then soon you—or that precious youngster of yours (or both!) will dream on!—for happy years and years to come.

ROOM AIR CONDITIONERS... *made by*

FRIGIDAIRE

installed and serviced by Frigidaire quality dealers everywhere

For the new-fashioned SHEER LOOK in styling—look for the name FRIGIDAIRE on the room air conditioner you buy.

FRIGIDAIRE DIVISION, GENERAL MOTORS CORPORATION, DAYTON 1, OHIO

16 barbecue feasts

Small fry are experts at Wiener Totems

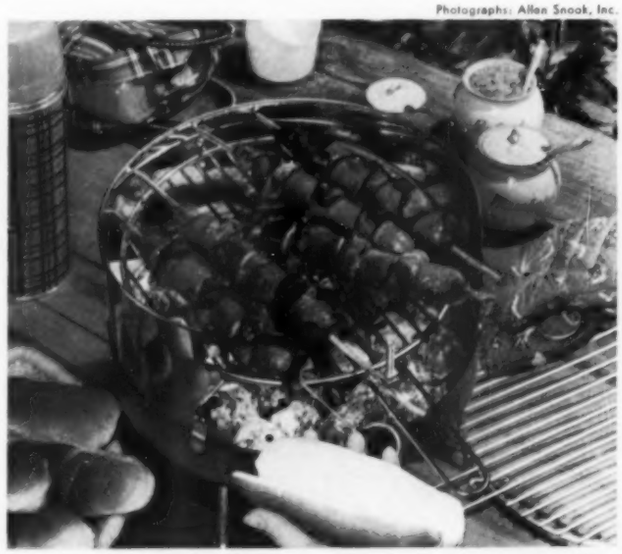
EVERYONE'S in on the fun—it's each man for himself. For easy push-off, run skewers through bacon before filling.

Try Wiener Totems, below, or Lamb Kabobs (page 154). Other tasty skewer meats: brown-and-serve sausage, squares of luncheon meat, chicken livers with bacon. Tidbits: pineapple chunks, cherry tomatoes, stuffed olives, mushrooms.

Wiener Totems are simple as 1-2-3. You'll need franks, bacon slices, dill pickles—and for something very special, our soy-sauce mixture (see recipe on page 159) to brush on while kabobs broil.

Thread end of bacon slice on skewer, add chunk of frankfurter and weave bacon under; add pickle chunk and weave bacon over. Repeat to fill skewer, leaving "elbowroom" so bacon can crisp. Broil.

Photographs: Allen Snook, Inc.



Open a coney and push a Wiener Totem off its skewer. Wow! How good can franks get! Help yourself from the mustard and relish jars. Pour ice-cold milk from the vacuum jug. (Hot coffee's in other jug.)

The little charcoal brazier is a wonder—can tour in family car to seashore or hilltop. Grill can be used as a broil basket—when food is brown on one side, just flip the basket over.

that cost less than steak

Begins on page 82

Outdoor Fish Bake is anyone's luck!

IF YOU'RE a lucky fisherman, fillet your own catch and fix as below. If not, don't miss out on our Outdoor Fish Bake—visit the seafood counter. Go for shrimp? It's delicious cooked this way, too, for appetizer or main dish.

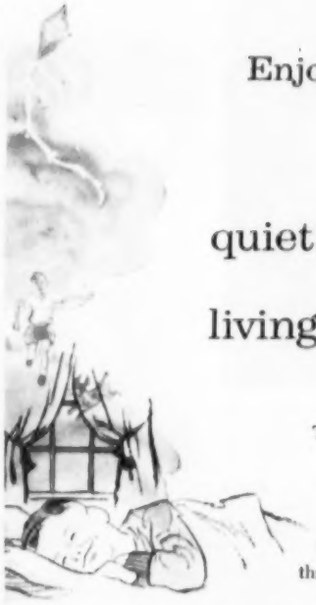
To tell when fish steaks or fillets are cooked, test with fork—if fish flakes easily, it's done.

Paper-thin lemon slices are part of the flavor trick. Place in bottom of shallow baking dish. Season fish fillets or steaks—salmon, as we have here, or halibut or haddock. Place atop lemon.

More flavor art: garlic butter. Pour it over the steaks and polka dot them with a few more lemon slices. That's all. Your masterpiece is ready to smoke-cook. Toss on the hickory and cover grill.

Salmon steaks have taken on a gentle lemon tang, a hint of garlic, and the fragrance of burning hickory. It's a banquet all right, with buttery green Limas keeping hot in the bean pot, French-fried potatoes (the frozen kind) in the foilware pan. To top off the meal, how about warm apple pie and tall glasses of iced tea?

Recipes start on page 140 *More pictures on page 148*



Enjoy this *Dream*

plus

quiet, clean, healthful

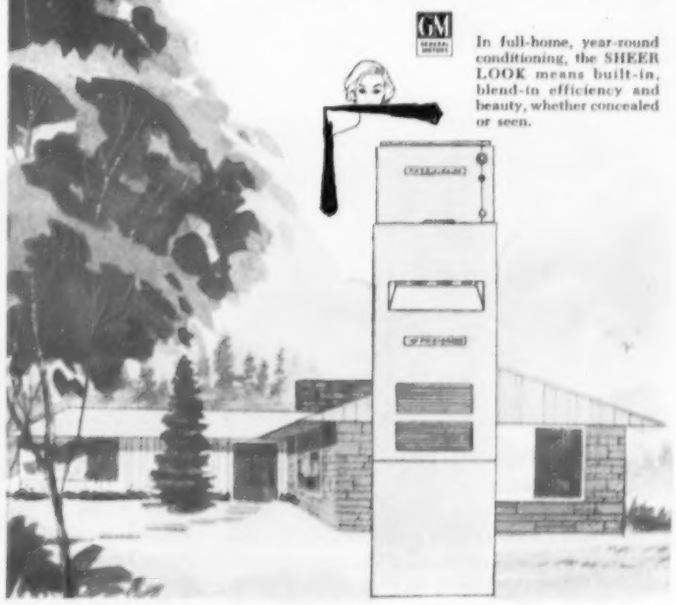
living in every room!

Twenty-four-hour-a-day comfort *every day of the year* is a dream that's ready to come true right now! Frigidaire makes the right, compact, hide-away system that thriftily spreads the magic of year-round air conditioning throughout your entire home. You sleep and eat better, enjoy your home-life to the fullest. Many allergies are relieved. Outside noise is quieted. Your home stays wonderfully cleaner. The cost? To learn how little, and how you can budget these benefits, call your Frigidaire dealer. In ONE HOUR OR LESS—and without obligation—he can tell you the cost of full-home conditioning and set the date when this dream of new comfort can come true throughout your home. Phone him today.

FULL-HOME CONDITIONERS . . . *made by*

FRIGIDAIRE

installed and serviced by Frigidaire quality dealers everywhere



In full-home, year-round conditioning, the SHEER LOOK means built-in, blend-in efficiency and beauty, whether concealed or seen.

FRIGIDAIRE DIVISION, GENERAL MOTORS CORPORATION, DAYTON 1, OHIO

Rigging up. Leader and hook go on end of line, sinker about 2 feet above hook, bobber at a distance from hook *not to exceed* length of rod (so fish can be reeled close to boat for netting).

Length of line from bobber to hook is the depth at which one is fishing. Most fish feed close to the bottom, so the bobber should permit the hook to swing just off the bottom so fish can strike.

Make fishing fun for your child

By Henry and Vera Bradshaw

You may be a father who likes to fish but who isn't sure what to do about that little tyke who wants to go along. Or you may be new at fishing, want to learn while you're teaching your child.

In either case, this picture story will provide pointers. Paul Ahlers of Des Moines, Iowa, began teaching his sons, John Paul and Tom, as soon as they were old enough to hold a rod. He so enlivened their trips into the outdoors, and was so careful to make these trips "play," that his boys have become quite expert.

He knew that nothing creates or maintains enthusiasm like success. He started teaching John Paul and Tom, not on the more-difficult-to-catch, larger, game fish, like walleyes, northern pike, and bass, but on pan fish (bluegills, sunfish, bullheads, catfish, crappies, suckers), the fish that are easiest to catch.

Later on, the youngsters can graduate to bigger fish, after they are prepared by knowledge and experience. Then they'll be better able to accept the luckless days that are bound to come.

An important part of teaching and learning how to fish is the frequency of excursions. Go often. It's easier to keep a child interested in learning when he has a chance to practice what he learns. And he won't forget as easily, either.

Let child bait own hook. First, acquaint child with danger of getting fishhook in his finger, then let him put on his own worm or minnow. Be sure he runs the hook crosswise through worm.

If the worm is slid on hook lengthwise, fish can pull it off easily. When fishing for crappies, small minnows are the best bait. Hook minnows through the lips so that they will stay alive longer.

Check position of bait. When the bobber is erect, as above and at right, bait is off bottom. Slightest tug by fish may be felt by angler.

If bait's on bottom, fish steal it without tugging.

A strike. After first slight warning tugs, fish will pull hard. Now, jerk rod upward, hooking the fish! Keep rod up and start reeling.

Lowering rod before reeling gives fish slack line, lets it get off hook. Limber rod allows fish to jerk without pulling mouth off of hook, as it might if there were no "give" to rod.

Let youngster net own fish. Mastering correct habits now will stand him in good stead later when he's trying to scoop those bigger fish.

Note how his father has taught Tom to bring rod behind him, which keeps line tight, as he nets fish. Many fish are lost at boatside when fisherman slackens line, thinking battle won.

Life jackets for beginners. Until children learn water safety, have them wear life jackets. Then carefully instruct them in proper behavior and necessary precautions in a boat—not to stand or rock.

If the water is rough, everyone should wear life jackets regardless of how experienced the adult or children may have become.

Photographs: Bradshaw

Fishing tackle pictured is all good for catching pan fish

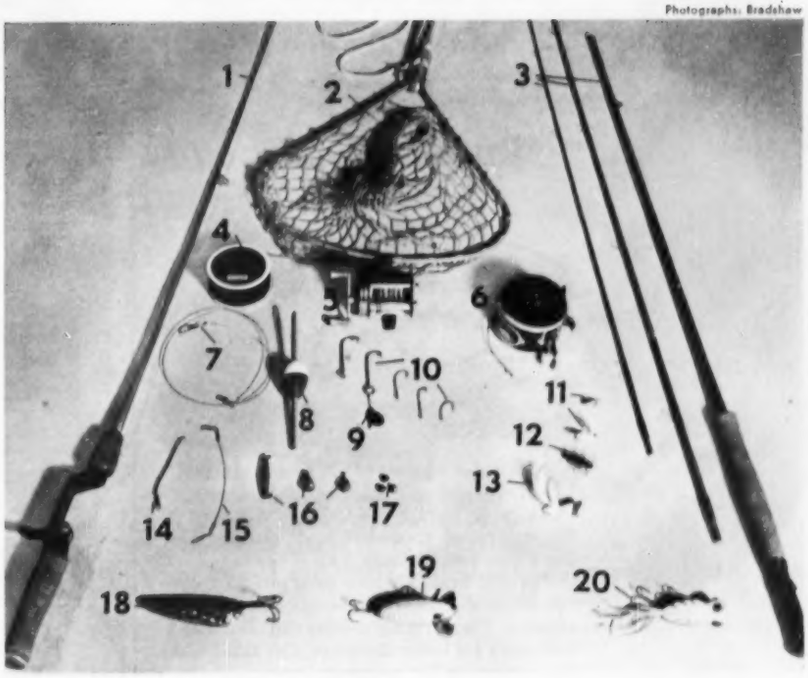
1 Bait casting rod
2 Net
3 Fly rod
4 Line
5 Bait casting reel
6 Automatic fly reel
7 Gut leader
8 Bobber
9 Spinner
10 Hooks
11 Flies
12 Woolly worm
13 Popping bug
14 Beaded leader
15 Steel leader
16 Sinkers
17 Split-shot sinkers
18 Spoon
19 Surface wobbler
20 Popping plug

Elementary equipment. The smaller hooks are best and, for beginners, the shorter bait casting rod rather than the fly rod.

Most important in the beginning reel is the level-wind, so line won't bunch up. Transparent nylon leaders usually are best for pan fish.

Fly-rod artificial lures work well but, with a bait casting rod, better stick to worms or small minnows for bait. The larger plugs are good bass lures, the spoon is fine for northern pike.

More on next page



Remove fish from net properly. Many people dump net in boat, tangling line, hook, and net cords. Net should be placed on knees, like this.

Fisherman reaches both hands into net, grips fish firmly with one hand, takes shank of hook in other hand. Then lifts out the fish, without any tangling of line or net cords.

Success! It takes only one fish like this to make a confirmed angler out of a child, provided you make it fun for him while learning.

Almost every small lake, pond, creek, or river contains one or more varieties of these hungry, plentiful, easy-to-catch, good-to-eat pan fish. They ensure successful fishing close to home.

Learning to de-hook fish. How to hold the fish is important. A firm grasp around its back, holding spines of fins down, is best. Work hook loose carefully, so fish will stay alive on stringer.

If a bass, a firm grip on its underlip (thumb in fish's mouth) will paralyze it so angler can work hook out while holding bass' mouth open.

A stripe of special Seal-O-Matic Adhesive is factory-applied to underside of shingle. The sun's heat automatically seals it down.

Patented Seal-O-Matics have proved themselves on thousands of homes all over the country. They grip tight—stay flat. Wind and rain can't get under the edges. Get this exclusive protection for your home now.

When Hurricane Connie ripped through Wrightsville Beach, N. C. it lifted and tore off conventional shingles.

Photographed at the same time, Seal-O-Matic shingles on the house next door stayed tight, flat, weatherproof.

For free estimate
see a J-M Honor Roll Dealer or Certified Home Improvement Contractor —identified by these seals

MAIL COUPON FOR FREE BOOKLET showing Seal-O-Matic Shingles in full color. Write to **Johns-Manville**, Dept. BH-6, Box 60, N.Y. 16, N.Y.

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Johns-Manville JM PRODUCTS

Make fishing fun for your child

Begins on page 144

Avoid boredom. If sun gets hot or fish aren't biting, don't make children sit in boat and scorch. Go ashore for awhile, practice casting.

It is easiest to learn fly casting standing up since it takes a full forearm motion. After an hour youngsters will be ready for more boat fishing.

Learn to bait-cast sitting down. Since most casting is done from a boat, it is wisest to learn first to bait-cast while seated. Cast straight overhand, as here, so lure won't hook companions. Casting movement is all wrist—rod moves from 10 to 2 in relation to face of clock. Start the cast with the plug tip as close to the rod tip as possible.

How to hold rod and reel for casting. The reel handles should face up to move freely.

The wrist should flex easily. The cast is not a "throw," nor should it be forced. It is as smooth as a dance step.

Use flip of the rod tip to send plug out over the water.

This hold enables angler to thumb reel if the fish runs.

It leaves right hand ready to catch reel handles if fish stops, or to start reeling as soon as hook is set to prevent slack in line.

If child isn't strong enough to hold rod as shown, he can hold with left hand on rod above reel, leaving line free, rod butt against his stomach, right hand free to reel.

More on page 225

Ask for a PULLMAN ticket

and get all these Travel Extras!

BUILT-IN PRIVACY! Enjoy a quiet, spacious Pullman "living room" by day and a comfortable private bedroom by night. Individually controlled heat and air conditioning . . . private toilet facilities . . . plenty of space for luggage. Every thoughtful convenience, plus prompt extra services at the touch of a button. It's so easy to make yourself at home! No travel fatigue, weather worries or highway jitters.

REAL BEDS! What a joy when it's "time to turn in"! Sink down between snow-white sheets in king-size beds—and really sleep. No off-and-on cat-napping that leaves you tired and out-of-sorts. No nightly searches for lodging . . . no time-wasting stop-overs. Only Pullman lets you enjoy a good night's sleep *en route* without losing precious travel time. You arrive on schedule—rested and morning-fresh!

COMFORT AND SAFETY! Whether you choose the restful seclusion of your own private quarters, or the friendly companionship of the club car, you enjoy smooth-riding comfort and safety. Free yourself from driving tensions, forget about traffic hazards. You're safer traveling on a Pullman than you are in your own home.

ATTACHED "DINING ROOM"! No time-wasting stops for meals, no searching for eating places. Dine when you please, at your leisure, in the spotless railway dining car just a few steps away. Your choice of finest foods, freshly cooked to your taste, and expertly served. Dine privately in your own room if you wish!

Your local Ticket Agent will help you these five ways:

1. *Provide information on routes, schedules, Pullman accommodations and fares.* **2.** *Make your Pullman reservations, going and returning.* **3.** *Furnish your rail and Pullman tickets.* **4.** *Assist you in planning stop-overs and side trips.* **5.** *He will even have a convenient "rent-a-car" reserved and waiting for you at your destination, if desired.*

YOU'RE SAFE AND SURE WHEN YOU TRAVEL BY

Pullman

. . . the travel service of comfort, privacy and sleep!

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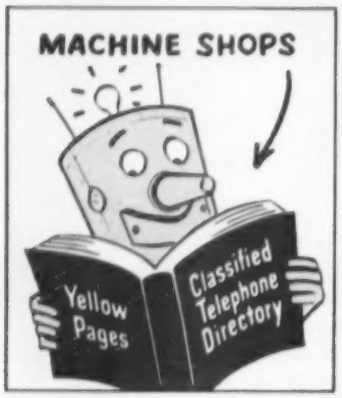
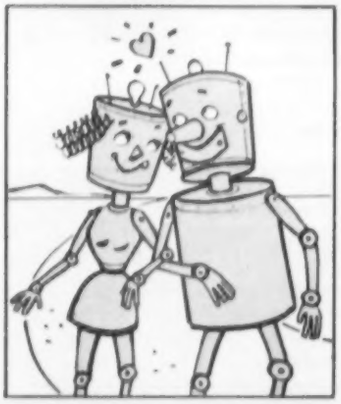




FROM MACHINE SHOPS TO STEEL FABRICATORS
whatever you need-

Find It Fast In The Yellow Pages

Ads with this emblem make your shopping easier

16 barbecue feasts that cost less than steak

Continued from page 143

There's a whiff of Patio Broiled Chicken in the air. No need to call folks for supper. They come!

Time to open the grill basket—Patio Broiled Chicken is done to perfection. Outside is crusty, tastes of the good marinade. Inside is ever so tender and moist. Grill partners are broiled tomato halves and he-man cuts of garlic-buttered Vienna bread. You'll want a big tossed salad, too. Soon as folks are served, slip a cherry pie on the grill to warm. And don't waste the embers—nothing's better than toasted marshmallows.

Select *young* chicken—2-pound broilers—and have split in half. So they'll lie flat while broiling, break joints—at drumstick, hip, and wing. Place chicken in shallow pan and pour a well-seasoned marinade over.

(In grill-broiling chicken, start with bony side down—just the opposite of in a range broiler.)

Recipes start on page 140

Let chicken refrigerate in the sauce at least 4 or 5 hours. Now it's ready to cook. Here we're using a handy broil basket to corral the chicken pieces.

Wire basket is hinged so it can adjust to the thickness of the food. It's a helpful tool for grilling steaks, chops, hamburgers, and fish, too. Flip the basket to turn food.

More pictures on page 150

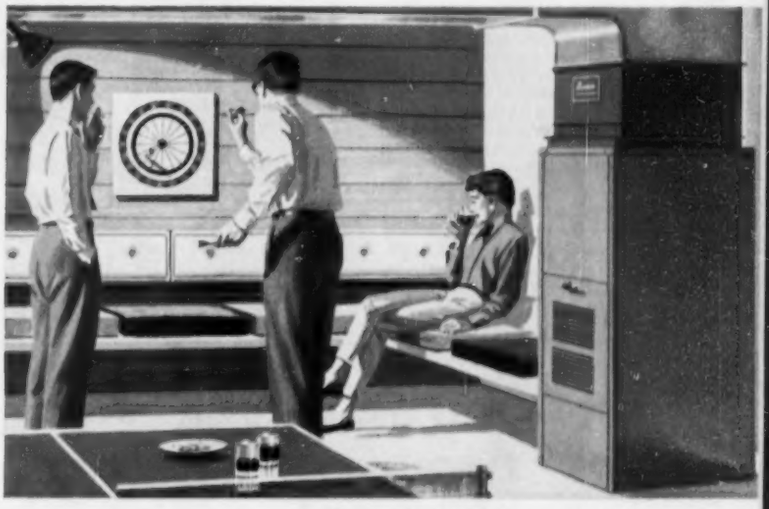
BETTER AIR CONDITIONING FOR EVERYBODY EVERYWHERE

Carrier

Which is the best way to air condition your home?

That depends on the home. Where you live, the number of rooms, the kind of architecture can make a big difference. To make sure of the best way to air condition your home, talk with the Carrier dealer in your community. He handles every type of air conditioning. (Four of the many ways are shown below.) So his only interest is to recommend the type that serves you best. Throughout the world, in thousands of dependable installations, Carrier air conditioning serves more people and more purposes than any other make. Good reason to call your Carrier dealer. He's listed in your Classified Telephone Directory. Carrier Corporation, Syracuse, New York.

Do you rent an apartment? A Carrier Room Weathermaker* will cool a room, several will make your whole apartment comfortable. Easy to install, and to take with you when you move.



Do you own an older house in the city? Add a Summer Weathermaker on top of your present furnace and existing ducts will handle cooling as well as heating. You'll save a pretty penny!

Are you building in the suburbs? Specify the Carrier Summer-Winter Weathermaker shown above. So compact it can fit into a closet. This combination will cool and heat an entire house.

Are you remodeling a country home? Plan to use a Carrier Year-round Weathermaker that cools and heats every room. It takes no more space than most furnaces. Automatic gas or oil heat.

*Reg. U.S. Pat. Off.

PARTY TIP:

When guests arrive, have refreshments ready to roll!

Get a COSCO® Tray Cart

Let this cart come to the aid of *your* party! It holds a whole evening-full of refreshments, and the top doubles as a serving tray! Chromium or black enamel legs and handles; five-ply COSCOAT wood-grain finish in blonde, gray, green and charcoal black. At department, furniture, hardware stores. Choose yours now, and be a *modern* hostess!

Model 8-WB, $15.95 ($16.95*)
Also 8-F: Fixed top. $13.95 ($14.95*)
Others low as $6.75 ($7.45*)

*Colorado and west.

Guaranteed by Good Housekeeping

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COLUMBUS, INDIANA

how to make your hamburger tastier!

Don McNeill

says on his Breakfast Club... "Be good to yourself—start cooking hamburger with Ac'cent. It's the *natural* way to bring out delicious meat flavor."

What is Ac'cent? Pure monosodium glutamate, the most exciting food discovery of modern times. Up-to-date cook book recipes include it. Famous chefs use it on meats, vegetables, poultry, seafood...in soups, gravies and salads. Good cooks "bless the day" they started using Ac'cent. What does it do? Adding no flavor of its own, Ac'cent restores the fresh, full goodness of natural flavors! When you use salt, use Ac'cent—it's just as easy.

Remember, you're not getting *all* the flavor unless you're using Ac'cent. Look for it in the red package with shaker-pourer top, at any food store. Available in Canada also.

Ac'cent comes in 1-oz., 4-oz., 8-oz., 1-lb. sizes

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Guaranteed by Good Housekeeping

16 barbecue feasts

Continued from page 148

Skillet fans, you'll go for Spoonburgers

Easy does it. Brown ground beef in skillet. Add chopped onion and celery; cook only till tender.

Now in goes a can of condensed tomato soup—look left. Spike mixture with seasonings, and perhaps a dash of liquid smoke. Cover; simmer *just right*. Ladle into toasted buns (see picture above). Spoonburgers are perfect answer for kids' cookouts.

The cunning plaid grill makes a fine car "passenger."

Over-the-coals Corned Beef feeds the gang

Start early. Simmer the corned beef in spicy cooking water 2 hours. This partly tenders it, takes out excess salt. (Do day ahead if you like.)

Then hickory-barbecue the corned beef—about 3 hours—to a delicious finish. Holding your knife at a slant, cut *thin* slices across the grain.

Fabulous sandwiches—Over-the-coals Corned Beef on rye! Have fix-in's in easy reach—horse-radish, mustard, chili sauce, dill-pickle slices—cheese, too. The potatoes roasted with the meat.

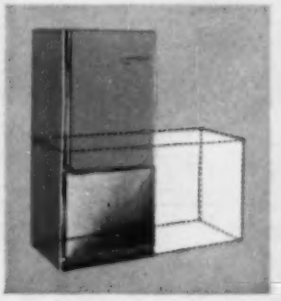
Recipes start on page 140 ***More pictures on page 152***

Choice of 18- or 13-cubic-foot capacity in Mix-or-Match Colors: Canary Yellow, Turquoise Green, Petal Pink, Woodtone Brown and White.

New General Electric "Book-Shelf" Freezer

puts twice as much food within easy reach as a chest freezer!

6 refrigerated surfaces . . . not just 4 "cold" walls. This new General Electric gives you more capacity for quick freezing.



Takes only ½ the floor space needed by a chest . . . and up to a square foot less than many other uprights.

New Magnetic Safety Door with permanent alnico magnet . . . opens easily, closes silently, and it seals securely.

Compare this General Electric Freezer value with any chest of comparable quality and size.

Like books on a shelf—that's how food is stored in this General Electric "Book-Shelf" Freezer. There's no rummaging, lifting . . . *none* of the penalties of a chest.

Gives you these *most-wanted* convenience features: 20-juice-can dispenser, 2-gallon ice cream conditioner, big sliding basket, choice of right- or left-hand door. Plus General Electric's new "Straight-Line" Design . . . fits right up to walls and cabinets for a "built-in" look without remodeling expense.

Priced low, easy terms too! See these remarkable "Book-Shelf" Freezers at your General Electric dealer's now.

Household Refrigerator Department,
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Progress Is Our Most Important Product

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DuPont suggests:

Calgon® as an aid in keeping "Dacron"* and nylon white

Calgon isn't a bleach, soap, or detergent. It's a water conditioner that prevents washing film. This film clings to clothes; makes whites turn yellow or dingy grey. Calgon rinses away film—leaving your garments soft and sweet-smelling.

You'll use less soap or detergent when you add Calgon to the water.

DuPont—the maker of "Dacron" and nylon fiber . . . and Bob Evans—a leading maker of uniforms . . . both suggest Calgon for laundering. Get Calgon today.

Calgon Company • Pittsburgh, Pa.

*Registered trademark for DuPont's polyester fiber

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1964-MV

16 barbecue feasts

Continued from page 150

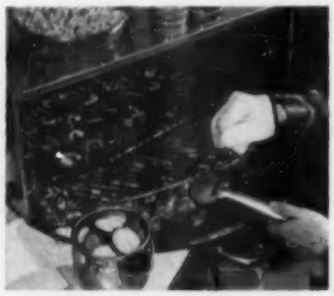
Flank-steak Roll-ups—neat trick for chef

Have meatman score the flank steaks. You can speed up cooking time if you use meat tenderizer—follow label directions.

Sprinkle steaks with chopped onion and roll in jelly-roll fashion, starting with long end.

Slice the meat rolls slightly on the bias, making pin wheels about 1 inch thick. Wrap each tightly; secure it on a skewer. If skewers are long, slip 2 roll-ups on.

Let meat marinate at least 3 hours in the peppy sauce.



Over the coals they go to broil to mouth-watering goodness.

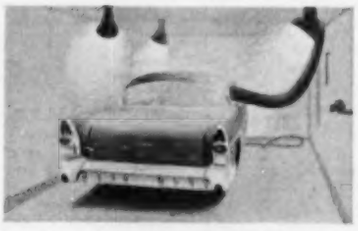
For that smoke-y flavor, add dampened hickory. Here backyard chef puts hickory cuts in fire bowl—a cinch with this brazier's two-piece, hinged grill top.

Flank-steak Roll-ups come a-sizzling to the platter. These skewers boast plastic handles; push them onto hot skewer ends for cool pick-up. Skillet offers buttered cut corn; bowl holds potato chips.

Recipes start on page 140

How to make dust bite the dust and

"rivers" stay 'way from your door



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DREXEL FURNITURE COMPANY, DREXEL, NORTH CAROLINA

Barbecues that costs less than steak

Continued from page 141

can hickory-barbecue the brisket one day, heat in sauce the next. Or freeze the cooked brisket, ready to be heated in sauce.

Quick Smoked Beans

The old bean pot will have to hurry to beat this for deliciousness. The longer beans cook the better they taste—

4 ounces salt pork, cut in 1-inch cubes
2 1-pound cans (4 cups) pork and beans in tomato sauce
½ cup catsup
¼ cup brown sugar
1 teaspoon dry mustard

Brown salt pork in skillet; drain. In 2-quart bean pot, combine remaining ingredients. Top with salt pork. Bake uncovered on grill of hickory-smoker with hood down, 1 hour or longer. Makes 8 servings.

Barbecued Ribs, Island Style

Glaze is delightfully sweet and mild. Pick 'em up and munch away —

1 can condensed consomme *or* 3 bouillon cubes dissolved in 1¼ cups hot water
1 12-ounce jar (1 cup) orange marmalade
½ cup catsup
½ cup vinegar
4 cloves garlic, minced
2 teaspoons salt
Dash pepper
• • •
4 to 5 pounds spareribs or loin-back ribs

For sauce, combine first 7 ingredients and pour over meat. Cover; refrigerate overnight or several hours. Lace ribs accordion-style on spit.* Broil over *slow* coals with hickory, brushing frequently with the sauce, 1 hour or till meat is well done (no pink) and nicely glazed. Makes 4 or 5 servings.

*Slabs of ribs may be broiled on grill top directly over coals, turning often till meat is well done.

Budgeteer Steak

Sensational! Tender and tangy from the marinade, with a hint of garlic and hickory—

2 1-inch round-bone shoulder steaks, about 4 pounds total
10 small cloves garlic, peeled
Seasoned salt, pepper
• • •
½ cup salad oil
½ cup wine vinegar
1 tablespoon Worcestershire sauce

Polka dot each steak with 5 cloves garlic: Insert tip of knife in meat and push in garlic clove as you remove knife. Sprinkle steaks generously with seasoned salt and pepper. Combine salad oil, vinegar, and Worcestershire for marinade. Pour over steaks in shallow dish and let refrigerate overnight or stand several hours at room temperature, turning meat occasionally. Grill over hot coals with hickory, about 15 minutes on each side or till done the way you like, basting frequently with the marinade. Heat remaining marinade (for a special relish add ½ cup each chopped celery, onion, and green pepper) and serve with the steak. **Tasting-Test Kitchen note:** For delicious, easy way to season, omit garlic, seasoned salt, and pepper; add 2 envelopes old-fashioned garlic salad-dressing mix and ¼ cup water to the salad-oil mixture used as marinade.

Lamb Kabobs

Chunks of lamb take on the tang of smoke and pickle-y sauce—

2 pounds boneless lamb shoulder, cut in 1½-inch cubes
3 medium green peppers, cut in eighths to make squares
• • •
1 can condensed onion soup
½ cup chili sauce
2 tablespoons salad oil
1 tablespoon vinegar
1 teaspoon salt
Dash Tabasco sauce

Run skewers through piece of lamb fat. Alternate the lamb cubes and green-pepper squares on skewers, leaving a little "elbowroom" so meat will cook evenly. Combine remaining ingredients for sauce; heat. Broil meat slowly over hot coals with hickory 20 to 30 minutes or till done, brushing occasionally with sauce. (If you don't use rotating skewers, turn them often on grill.) Serve with the sauce. Makes 4 servings.

Chuck-wagon Stew

A serve-in-a-bowl stew with old-fashioned flavor. The outdoor touch: hickory-browned meat —

4½ pounds beef shank, cut in 2-inch-thick slices*
Nonseasoned meat tenderizer
• • •
1 medium onion, sliced
2 cloves garlic, minced
1 tablespoon salt
½ teaspoon paprika
¼ teaspoon pepper
Dash allspice
1 tablespoon Worcestershire sauce
3½ cups boiling water
• • •
6 medium carrots, sliced
1 cup bias-cut celery slices
8 small potatoes (optional)
8 small white onions
• • •
1 10-ounce package frozen peas

Sprinkle meat evenly on all sides with tenderizer, using ½ teaspoon per pound. *Do not use additional salt.* With long-tined fork, pierce all sides of meat deeply. Let stand at room temperature about 40 minutes. Brown meat slices over hot coals with hickory, about 15 minutes, turning once. Place meat in Dutch oven; add sliced onion, garlic, seasonings, and water. Cover and *simmer* (not boil) 1½ to 2 hours or till meat is almost done. Add vegetables except peas; cover and cook till tender, about 45 minutes. Add peas last 10 minutes. (To thicken: Push meat and vegetables to one side. Gradually stir ⅓ cup water into 3 tablespoons enriched flour till smooth; stir into bubbling liquid. Continue cooking and stir-

[*Turn to page 157*

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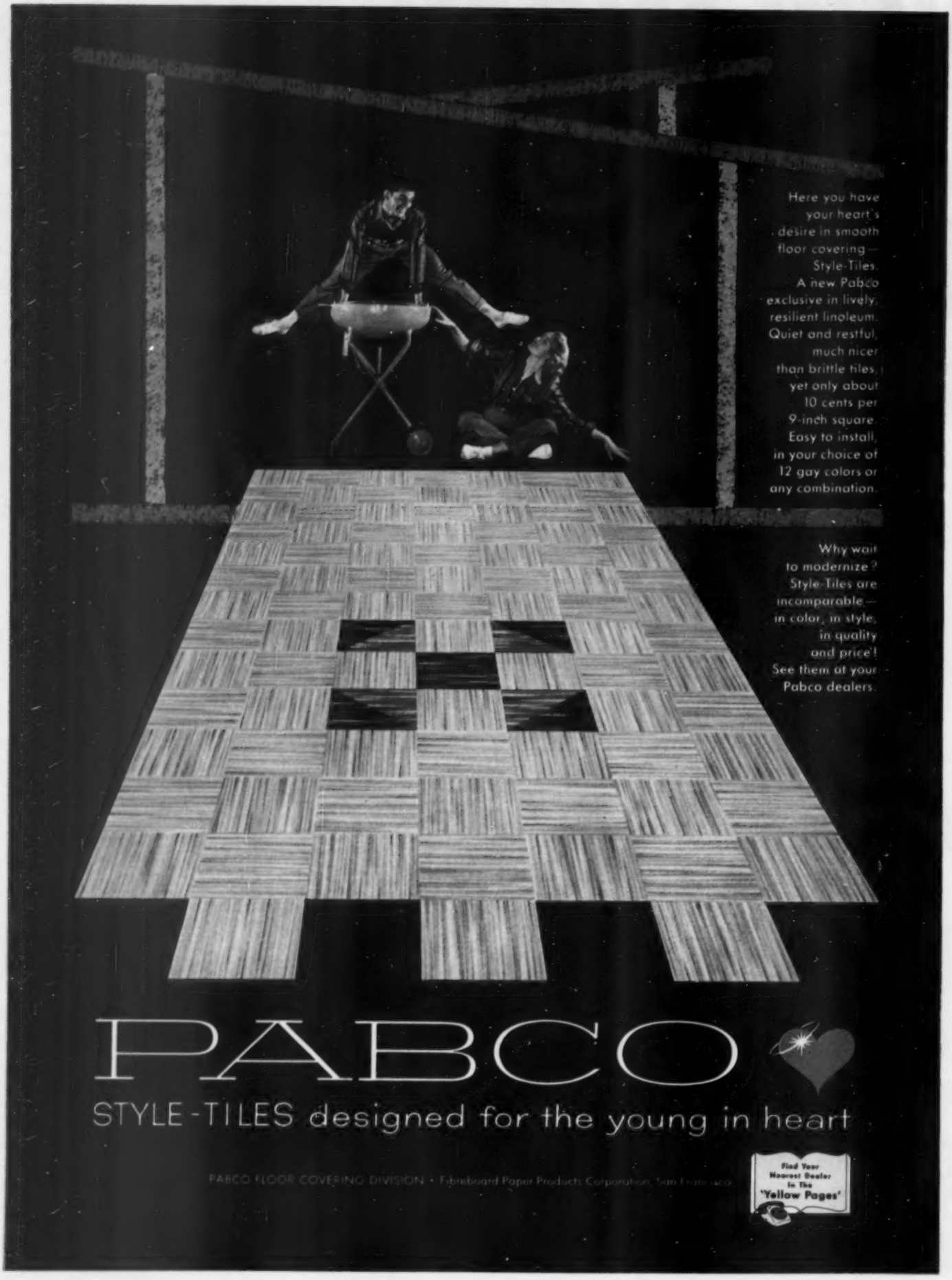
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Barbecues that cost less than steak

Continued from page 154

ring about 5 minutes.) Makes 6 to 8 servings.

*If you like, reserve a few slices to grill like steak. Use the meat tenderizer, of course, then broil slowly over coals (add hickory for smoke flavor), turning once, till cooked to the doneness you like.

Mock Filet of Beef

You can't imagine how good this is! Very tender, juicy, still slightly pink—almost like tenderloin. And the sauce is delicious!—

1 2½- to 3-inch eye-of-round steak, about 3 pounds
Nonseasoned meat tenderizer
• • •
1 cup catsup
½ cup Worcestershire sauce
1 cup water
1 teaspoon chili powder
1 teaspoon salt
1 clove garlic, minced

Sprinkle all sides of steak evenly with tenderizer, using ½ teaspoon per pound. *Do not use additional salt.* With long-tined fork, pierce all sides deeply at 1-inch intervals. Let stand at room temperature about 30 minutes. Meanwhile combine remaining ingredients for sauce and simmer slowly 30 minutes. Center steak on spit and tie securely with cord. Roast in electric barbecue rotisserie or slowly over charcoal on motorized spit about 1½ hours or to desired doneness, basting frequently with the sauce. Meat thermometer will read 140° for rare, 160° for medium, or 170° for well done. To serve, slice steak on bias, across the grain; pass bowl of the sauce. Makes 8 servings.

Patio Broiled Chicken

Beautifully charcoal-browned and expertly seasoned with marinade—

1 cup salad oil
⅓ cup lemon juice, fresh, frozen, or canned
3 tablespoons soy sauce
1 clove garlic, minced
1 teaspoon oregano
1 teaspoon monosodium glutamate
½ teaspoon salt
¼ teaspoon pepper
• • •
2 ready-to-cook young chickens (about 2 pounds each), split in half lengthwise

Combine all ingredients except the chicken. Break drumstick, hip, and wing joints so birds will stay flat during broiling. Let chicken refrigerate in sauce at least 4 or 5 hours, turning occasionally. Place on grill with bone side or inside nearest the hot coals. Broil slowly. When well browned, 20 to 30 minutes, turn and brown skin side, brushing occasionally with sauce. Cook about 30 minutes longer or till tender. Makes 4 servings.

Cowboy Potatoes

Scrub potatoes thoroughly. Cook in jackets in heavily salted water (3 tablespoons salt to 1 quart water). Drain; peel and slice. Season with pepper. Brown well in hot bacon fat over medium heat. Keep turning potatoes carefully so they get crusty brown on all sides.

Wiener Totems

Favorite of all kids—and many adults! You can omit the sauce, but it makes wieners so good—

½ cup soy sauce
⅓ cup catsup
¼ cup salad oil
¼ cup vinegar
1 tablespoon prepared mustard
1 teaspoon thyme (optional)
• • •
12 slices bacon
6 frankfurters, cut in fourths
4 large dill pickles, cut in ½-inch chunks

Combine the first 6 ingredients for sauce. On each of 6 long skewers, you'll have 2 slices bacon, 4 chunks frankfurter, 3 chunks pickle. Here's how: Thread one end of bacon slice on skewer and weave *loosely* over and under pieces of frankfurter and pickle as you alternate them on the skewer. Grill over hot coals till bacon is crisp, 15 to 20 minutes, brushing frequently with the sauce, and turning the Totems. Makes 6 Totems (3 servings for out-of-doors appetites).

Outdoor Fish Bake

Fresh air plus the best-tasting, gently "lemoned" fish—

6 fish steaks or fillets, ¾ to 1 inch thick
Salt and pepper
2 or 3 lemons, *thinly* sliced
½ cup melted butter or margarine
1 or 2 cloves garlic, minced

Sprinkle fish generously with salt and pepper. Arrange about half of lemon slices in bottom of shallow baking dish or foilware pan; add fish in single layer and place remaining lemon slices on top and around sides. Combine melted butter and garlic; pour over fish. Add hickory to slow coals. Place baking dish on one thickness heavy-duty foil (or 2 of household weight) atop grill. Close smoker hood and cook slowly, about 1 hour or till fish is done, turning once and basting frequently with butter mixture in pan. Serve with the cooked lemon slices and butter mixture. Makes 6 servings.

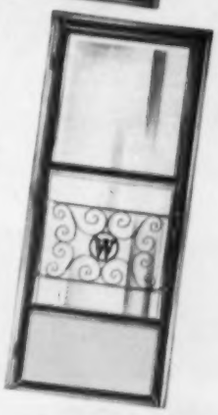
Spoonburgers

Cook outdoors—or fix in the kitchen and cart to yard—

1 pound ground beef
1½ cups chopped onion
1 to 2 cups chopped celery
• • •
1 can condensed tomato soup
½ to 1 tablespoon bottled barbecue sauce
1 teaspoon salt
Pepper
Dash liquid smoke

Brown meat in small amount hot fat. Add onion and celery; cook until tender but not brown. Add remaining ingredients. Cover. Simmer 30 minutes. Serve on toasted buns. Makes 6 to 8 servings.

[*Turn to page 159*



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Westinghouse Electric Corp., Major Appliance Division, Columbus, Ohio

Barbecues that cost less than steak

Continued from page 157

Tomato Barbecue Sauce

A good all-around sauce to serve with over-the-coals meat—

1 8-ounce can (1 cup) seasoned tomato sauce
⅓ cup steak sauce
2 tablespoons brown sugar
2 tablespoons salad oil

Combine all ingredients and bring to boiling. Makes 1⅓ cups.

Flank-steak Roll-ups

Filling is chopped onion, marinade is nicely herbed—

2 cups finely chopped onion
2 flank steaks* (about 2½ pounds total), scored

• • •

1 cup salad oil
⅔ cup vinegar
3 or 4 cloves garlic, minced
2 teaspoons salt
½ teaspoon thyme
½ teaspoon marjoram
Dash pepper

Reserve half of the onion for the sauce; sprinkle remainder over the two steaks. Roll each steak, starting with long side. Cut in 1-inch slices, slightly on the bias. Wrapping each roll-up tightly, secure it on a skewer. (If skewers are long, put two roll-ups on each.) In shallow dish, combine reserved onion and remaining ingredients for marinade. Add meat and let stand at room temperature 3 to 4 hours or in refrigerator overnight, turning several times. Broil meat slowly over hot coals 25 to 30 minutes or till tender, brushing it frequently with marinade and turning once. Makes 6 to 8 servings.

*If desired, to cut cooking time, use nonseasoned meat tenderizer on the flank steaks, following label directions.

Over-the-coals Corned Beef

After meat simmers almost tender, give it the hickory treatment. Super eating—

4 pounds corned-beef brisket
1 small onion, sliced
1 or 2 cloves garlic, halved
6 whole black peppers
4 whole cloves
1 bay leaf

Place corned beef in deep kettle and cover with water. Add the remaining ingredients. Now bring to boiling; reduce heat, cover tightly and *simmer* (not boil), 2 hours. Drain. Place meat on double thickness of aluminum foil on grill of barbecue smoker, at opposite end from coals. Close smoker hood and hickory-barbecue 3 hours or till tender. To serve, slice on the bias with knife at slant so meat is cut across the grain. Makes 8 to 10 servings.

On the run

When children are small
They run up stairs,
They run up walks,
They race in pairs.

They run up ramps,
They run up hills,
Then, a few years later,
They run up bills.

—*Richard Armour*

Summer vegetables

Begins on page 112

Corn *plus* calico colors for flavor brightness

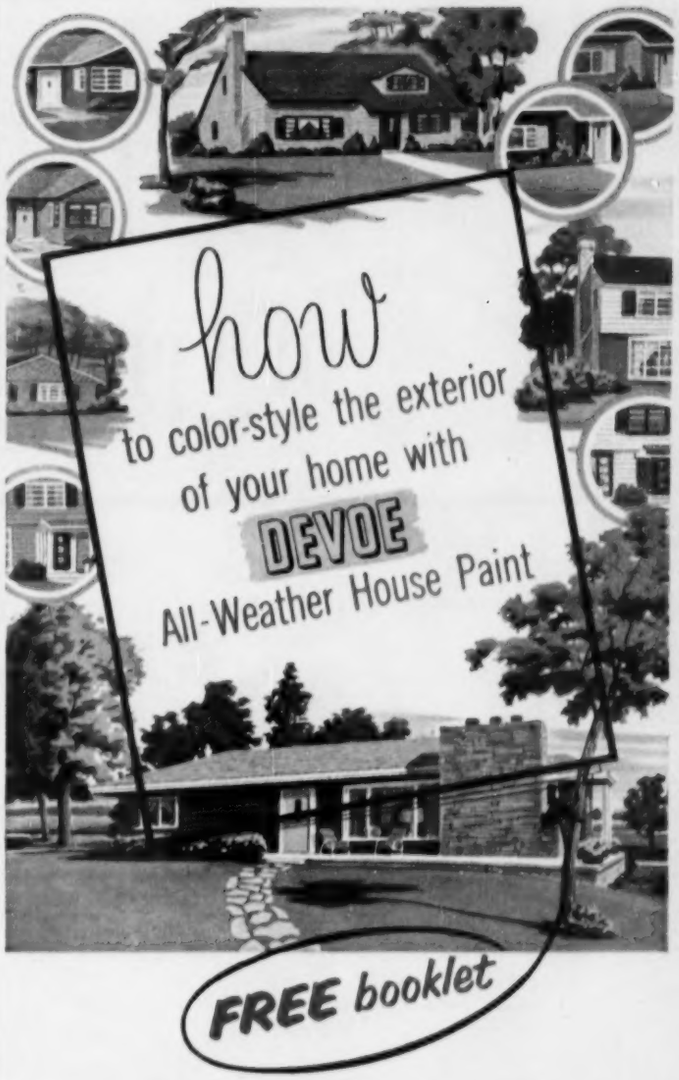
Makes a delicious meal with ham loaf and a crisp summer salad.

Calico corn: In saucepan combine 1½ cups cut, fresh corn, ½ cup diced celery, ¼ cup diced green pepper, and 3 tablespoons butter or margarine. Cover; cook 10 to 15 minutes or till corn is tender, stirring occasionally. Add 3 tablespoons diced pimiento and season to taste with salt, pepper. Trim with green-pepper rings. Makes 4 servings.

Carrots *plus* simple sauce of butter and lemon juice

Here's a dressed-up vegetable dish you can fix when you're in a hurry. Lemon juice adds tartness. Little flecks of parsley give color.

Lemon-Butter Sauce: Combine 3 tablespoons melted butter, 2 tablespoons chopped parsley, and 1 tablespoon lemon juice (fresh, frozen, or canned). Pour over hot drained cooked carrots.



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DEVOE

For diabetics—

A PILL instead of a puncture!

To many with diabetes, insulin injections are a nightmare. Now some may find relief in a substance taken by mouth

By Bernard Seeman

For a majority of 2,000,000 Americans suffering from diabetes, the testing of a new drug called Orinase ushers in a promise of freedom—a release from slavery to the hypodermic needle. Instead of being chained to the need for daily injections of insulin in order to live—many of them may be able to control their disease with a tablet which can be swallowed.

This is more than "just another medical miracle." To the diabetic—and about 4,750,000 of us alive today in the United States are scheduled to become diabetic—the new drug which can be taken by mouth represents what may be the greatest advance in 3,500 years of diabetes history.

Orinase will not work for every diabetic. One thing is essential. If Orinase is to work, some part of the patient's pancreas must be able to produce insulin. But indications are that for a substantial majority—possibly 70 percent or more—the new drug can provide not only a treatment but also an opportunity to live a more normal life.

Unlike many of the so-called miracle drugs which, because the need for them was immediate, were released to the public after the barest necessary testing, Orinase—a distant chemical cousin of the sulfas—chemical name tolbutamide—has undergone the most careful investigation of any substance in recent medical history.

"Had there been no insulin for the treatment of diabetes," explains Dr. Rachmiel Levine of Chicago's Michael Reese Hospital, one of the world's leading experts in carbohydrate metabolism, "Orinase would have been rushed to the public long ago. But having insulin reduced the urgency and gave us the golden opportunity scientists dream about—to test, test, and test some more."

In Germany and most of Western Europe, over 40,000 patients have been receiving Orinase therapy for about two years. In the United States, some 1,700 physicians have been testing the drug on about 20,000 patients—in some cases for well over a year.

The results were summarized this year at an international conference sponsored by New York Academy of Sciences. Mount Sinai's Dr. Henry Dolger, whose results reflected those of many other investigators both here and abroad, reported that after using Orinase on about 700 diabetics he found it effective in four out of five cases where the patient was over 40; one out of three cases where the patient was between 20 and 40; ineffective with juveniles.

Since over 75 percent of all diabetics are over 40, the drug seems most effective in the area of greatest need. Furthermore, Doctor Dolger added, out of 315 patients who had found insulin necessary to treatment, replacement of insulin by Orinase was possible in 202 cases and "it was surprising to find better diabetic control with the Orinase."

Equally important was the fact that "not a single serious or significant toxic effect was demonstrated in the entire group over a one-year period."

Considering all the scientific evidence, it seems pretty clear that a new day is dawning for [*Turn to page 167*

Symptoms of diabetes

1. **Urinary frequency (large volumes passed)**
2. **Excessive thirst**
3. **Rapid weight loss**
4. **Increased appetite**
5. **General weakness**
6. **Itching of the skin**
7. **Visual disturbances (blurring)**
8. **Skin disorders (boils, carbuncles, and infections)**

When present, these symptoms may *suggest* a diagnosis of diabetes but nothing more. Final and complete diagnosis depends upon testing blood and urine for sugar levels.

North, South, East, West—

THE SWITCH IS ON

to the cars that are new all through!

UP NORTH, people say they're switching to Chrysler Corporation cars because of wonderfully fresh, new styling . . . because of outstanding engineering . . . because in no other cars (as a showroom visit will quickly prove) can you get so *much* that's so *new* as in this PLYMOUTH BELVEDERE 4-door sedan . . . 3 years ahead of its field.

WESTERN ROADS get pretty rugged, but Torsion-Aire suspension irons them out smooth. It keeps the car flat around sharpest curves, lets you stop fast without front-end "dive". It's the engineering advance of the year! You can enjoy it with every Chrysler Corporation car. This value-loaded beauty is a DODGE ROYAL 2-door hardtop.

EASTERNERS SAY THEY'RE SOLD! One reason is the quick reflex, the unmatched smoothness and surge of new Pushbutton Torque-Flite transmission. It's available only on the cars of The *Forward* Look. That's a DE SOTO FIREFLITE 4-door hardtop. With a new, wider range of models, De Soto is priced just above the lowest!

IN THE SOUTH AND SOUTHWEST our dealers say people take to the styling that's *truly* new—distinctively different. They like the trimmed-down height—the slimmed-out length—the clean, lean lines that have the poise of an arrow. This car is a CHRYSLER NEW YORKER 2-door hardtop. (There's also a new Windsor series right in the medium-price field!)

NORTH, SOUTH, EAST, WEST—*everywhere,* people say they love these cars. Here is a magnificent reason why. It's an IMPERIAL CROWN convertible. Overnight the Imperial has become the fine-car style leader . . . making an unforgettable impression on motorists for purity of styling and overall *excellence* of design.

CHRYSLER CORPORATION ➤ **THE *FORWARD* LOOK**

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Looking at houses?

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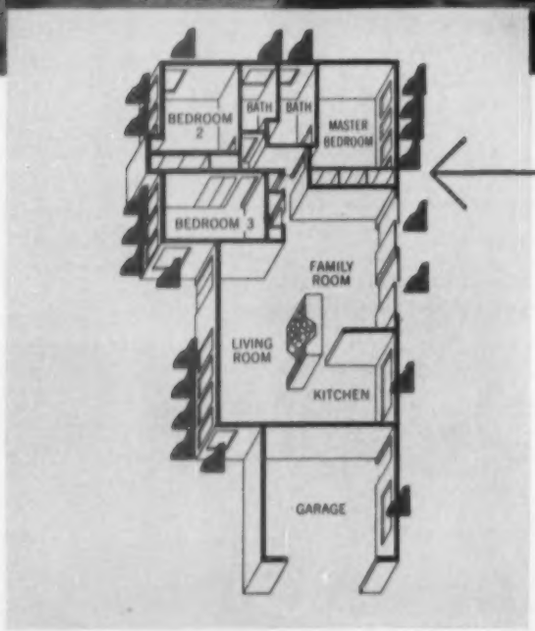

Every window (identified by this symbol) in this model house is insulated with *Thermopane*. Builder: Greta Lederer, Inc., Glencoe, Illinois.

A HOUSE WITH NO HOLES IN THE INSULATION

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L O F GLASS

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INSULATING GLASS

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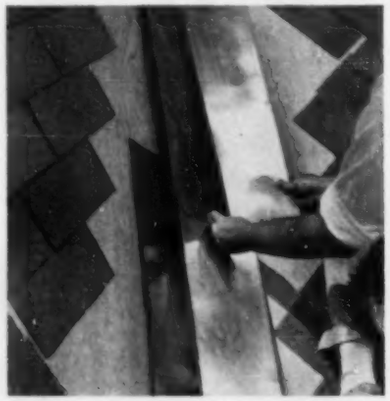
How to replace flashing in open, closed roof valleys

Photographs: Camera Associates, Inc.

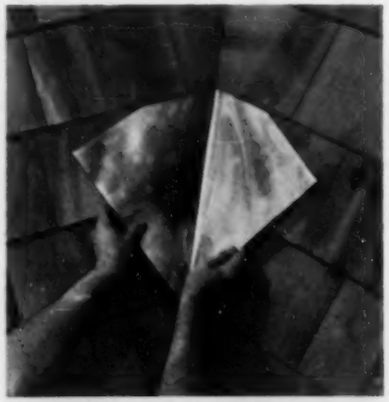


If flashing in open valley (valley where flashing is exposed) develops leaks, it must be replaced. Pry off old flashing, shingles on either side; cut new material 18 inches wide into eight-foot lengths.

Start from bottom, and overlap ends six inches. Nail them only at top of each strip and along sides. Nails must be same metal as flashing. When finished, lap shingles over metal four inches; cement them down.

If bituminous flashing (90-pound roll roofing) is used for open valley, lay 18-inch-wide strip, mineral surface down, in valley and fasten with galvanized roofing nails. Then cover with 36-inch-wide strip, put down with mineral surface up.

Shingles should be cemented over flashing. If flashing is laid in short strips instead of top to bottom of valley, upper strips should lap those below by eight inches.



In closed valley (where shingles come together), short pieces of flashing metal are usually interwoven with the shingles.

To stop leaks, bend 12- to 15-inch square of metal diagonally, and force it up under shingles. If series of flashing strips are required, work from bottom of valley up. Generally—for roof and side walls—one type flashing may be substituted for other. *Metal is a must* for chimneys, vents.

When leaks develop at juncture of wall and shed roof, cut flashing metal in long strips and force it under siding high as possible. Bend three-inch-wide strip flat on roof.

Exposed edge on roof usually doesn't need to be fastened; in windy locations, stick it down with roofing cement. Don't nail. Hint: It may be easier to push flashing under siding by sliding it in from the side, as pictured here.

PUSH OUT

Cut along dotted lines

How to repair and replace

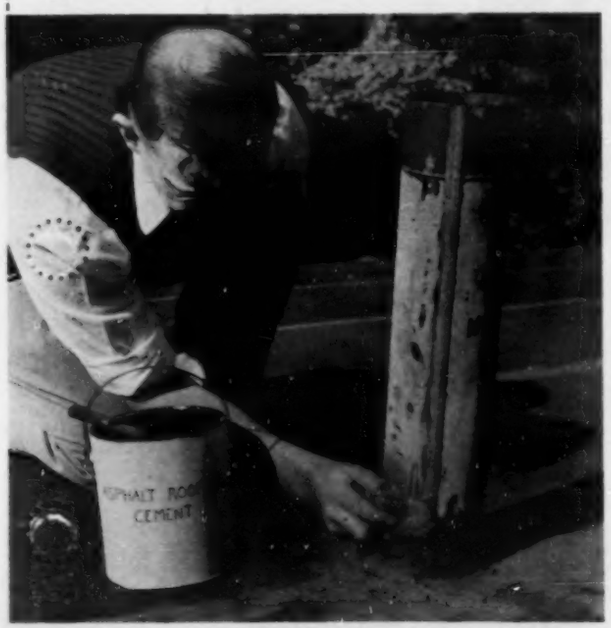
FLASHING

Under constant attack by the elements, the flashing on your house can develop holes, rips, and open joints that let in moisture. This soon rots and wrecks wooden structural members.

Nine times out of ten, you can do something about it—often with nothing more than a dab of roofing cement in the right spot, or with a new piece of flashing material you can buy.

Through long years of experience, building experts have developed the installation and repair procedures you'll find here. By following these instructions, the job will go faster, and, more important, it will be waterproof.

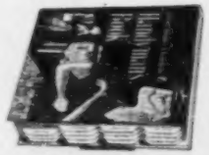
Maintenance now can save replacement bills later



Stop corrosion before it starts. Scrape off rust and paint metal with asphalt roofing cement.

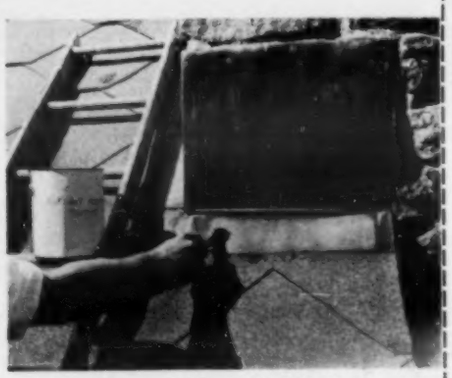
Flashing can be noncorrosive copper, aluminum, galvanized iron, asphalt roll roofing, metal-clad asphaltic felt. Always use metal for chimneys, vent pipes.

Add these pages to your HANDYMAN'S BOOK
File under Exteriors



Flashing made of roll roofing may lose its granulated surface under rush of water, and felt may crack.

If so, coat it with asphalt roof topping (asphalt cement thinned to paint consistency) when it shows wear. Pin holes in metal flashing can be fixed *temporarily* this way.



You can plug small holes in flashing made of any material with asphalt roofing cement.

Force as much compound into the holes as you can; smooth it out with the tip of a putty knife or scraper. It's a good idea to inspect all metal on your house every year.

Chimney flashing is always subject to damage; check it often.

Re-solder any joints that come open. If flashing comes loose from masonry, or if masonry begins to weaken, chip out joint and re-point with mortar made of one part cement, two parts sand. Wet joint with water first.

Cover big holes with thick layer of roofing cement, and embed patch of same flashing material in it.

Then cover patch with more cement. Patch should be inch or so larger than hole. Holes in metal can be sealed with soldered patch; be careful with the blowtorch.

Flashing between gable roof and side wall is best applied in long strips. Use 9-inch-wide metal. Nail it on wall, not roof. The siding covers top edge; shingles should cover bottom. Cement them down.

Another way to flash juncture is to interweave 9-inch-wide metal strips with shingles. Extend flashing four inches up wall, and five inches under roof shingles. Don't nail it to roof; don't drive nails through it.

What to do about leaky window and door frames

To stop water from entering, first cut out piece of flashing four inches longer than width of window (or door) casing, and then push it up under the siding.

On clapboard walls, flashing should extend four inches above casing; on shingle walls, it should extend above butts of the shingles in the next course.

Hammer shingles back flat against the wall. This bends the flashing at right angles. Then fold flashing down over casing (trim) and nail it to front edge, as pictured.

If you paint flashing same color as the trim, it won't show. Be sure to prime the new metal first before finish paint is applied. Check dealer for right primer to use.

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... the only house paint with fume-resistant pigments and Vitolized Oil®

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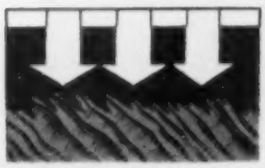
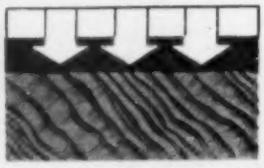
You add extra years of sparkling beauty to the life of your home, dollars to its value, when you paint it with SUN-PROOF. This famous house paint is made with fume-resistant pigments and special Vitolized Oil which controls penetration. That's why your home will keep its "just-painted" look years longer. And with SUN-PROOF's wide range of more than a hundred Maestro Colors to choose from, you can give it a completely new personality that is distinctively your own.

Controlled Oil Penetration Makes SUN-PROOF Look Better Longer!



● **Much of the oil** in ordinary paint soaks into the wood being painted. This leaves the paint coat starved and brittle—ready to crack and peel with severe weather changes.



● **SUN-PROOF's** Vitolized Oil is treated to control penetration. Only enough oil goes into the wood to insure a firm bond. The rest stays in the paint film to resist weather.

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A pill instead of a puncture!

Begins on page 160

many diabetics. This comes at a most opportune time because, as our life expectancy is increasing, so is the incidence of diabetes which today covers about 65,000 new cases annually.

Diabetes is one of the earliest diseases on record. It was described in an Egyptian papyrus of about 1550 B.C. The cause was unknown at the time.

A physician of 200 A.D. called it a disease in which the flesh "melts away" and is siphoned off into the urine. The very name "diabetes" is derived from the Greek word for siphon.

Today's test for diabetes involves checking blood and urine for high sugar levels, which isn't much different from the early tests. However, the present-day diabetic, properly controlled with diet and supplementary insulin if necessary, can expect to live a normal life span. But the cause of diabetes remains as much a mystery as it was to the physicians of ancient Egypt.

Modern doctors do agree, however, that diabetes produces an inability on the part of the body to convert sugar into the energy which is vital for all body functions. This inability to metabolize carbohydrates seems to be due to a breakdown in the normal insulin mechanism. Insulin, a hormone produced by certain cells of the pancreas, somehow is responsible for the body's ability to utilize sugar and turn it into energy. How insulin does this is still another medical mystery.

In diabetes, something goes wrong either with the normal production of insulin or the way in which it works. As a result, unused sugar piles up in the blood, the patient weakens, other disturbances set in and, if the disease runs its normal course, the victim finally passes into coma and dies.

Isolation of insulin

Until 1921, the only recognized treatment for diabetes was a strictly controlled diet that limited carbohydrate intake. In a number of cases diet was not enough and the patients died. Then came one of the most remarkable achievements of modern medicine. Two young Canadians—orthopedic surgeon Frederick G. Banting and second-year medical student Charles H. Best—isolated insulin from the pancreas of a dog, a feat which won Banting a Nobel Prize and knighthood. For the first time since diabetes was first recognized as a disease, its victims had an effective treatment.

The search for a pill

While insulin provided a means of controlling diabetes, it created a new set of problems for the diabetic whose disease could not be managed by diet alone. Since insulin is destroyed by the digestive juices, it could not be taken by mouth but had to be injected.

To some, injections are a painful hardship. To others they are an inconvenience. Still others find it impossible to inject themselves and must have it done for them—usually by a member of the family or by a friend trained to do the job. Under these circumstances conditions could and did arise which made it impossible for a diabetic to have a needed injection.

So, almost as soon as insulin was isolated, the search for an anti-diabetes pill began. The problem was to find a substance which could be taken by mouth to reduce the high blood sugar and other symptoms of diabetes, enable the body to utilize carbohydrates and turn them into energy, and—at the same time—produce no harmful side effects. The last requirement

[*Turn to next page*

Who gets diabetes?

Persons most likely to develop diabetes are of diabetic families, overweight, inactive, between 45 and 65 years of age. According to The American Diabetes Association, Inc., the incidence of diabetes in relation to age groups is:

1–20 years	1 in 2,500 has diabetes
20–40 years	1 in 1,000 has diabetes
40–50 years	1 in 200 has diabetes
50–60 years	1 in 100 has diabetes
60–70 years	1 in 50 has diabetes

After age 25, women are more susceptible than men—the incidence becoming 2:1 in women between ages 55-64 years. For some unknown reason, the higher rate among women applies mainly in those who are over age 45, have been married, and particularly if they have borne children.

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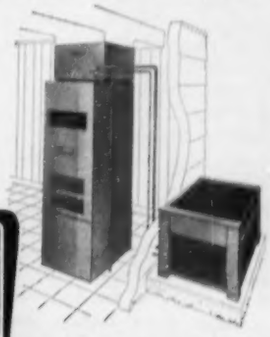

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Invented by a doctor—now used by millions of women

A pill instead of a puncture

Continued from preceding page

proved the big stumbling block. Drugs were found which could reduce blood sugar, but they also produced damage to the kidneys, liver, or other organs.

Accident provides clue

The first hint of a possible solution to the mystery of a pill came as the result of a fatal accident. This happened in 1942, when Doctor Janbon, a French researcher, tested a sulfa drug on typhoid fever patients. Shortly after the drug was administered, most patients developed unusual symptoms. A few died. Doctor Janbon called in the renowned physiologist, Dr. Auguste L. Loubatieres, who found that the drug had reduced blood sugar to a point where it produced effects similar to an insulin overdose.

Sensing the possibilities, Doctor Loubatieres began a study of how this and similar drugs work in the human body to lower blood sugar. Today this study has been taken up by other researchers as well, including Argentina's Nobel Prize winner, Dr. Bernardo A. Houssay.

The second clue in the search for a pill came in Germany in 1952. Doctor J. Fuchs, a young resident in Berlin's Auguste-Viktoria Hospital, was testing the bacteria-killing effects of a new sulfa compound known as carbutamide. Patients under treatment with this drug also began to show symptoms similar to insulin reaction.

Doctor Fuchs and other German physicians began testing it on diabetic patients and found that, given orally, it could be used to replace insulin in a number of cases. However, as tests in the United States showed, carbutamide—or BZ-55 as it came to be known—produced toxic side reactions in about five percent of the patients. Most of these were minor but a few involved serious liver and other damage. The drug was therefore withdrawn in the United States.

Bacteria killers prove toxic

Oddly, the toxic side effects of BZ-55 were related to the bacteria-killing ability of the drug. Most bactericidal sulfa drugs produce side effects when their use is prolonged beyond a certain point. The spotlight was turned on a new drug, tolbutamide, which was developed in Germany in 1954 by Farbwerke Hoechst. This drug, a distant chemical relative of the sulfa drugs, proved absolutely harmless to bacteria—produced no significant side effects—and could be used to replace insulin. This drug is today known as Orinase.

Adult diabetics benefit most

Orinase is least effective in juvenile diabetes which usually shows itself before the age of 20. In this type of diabetes the patient is generally thin, the symptoms are unstable, and the disease is therefore difficult to manage. In juvenile diabetes, Orinase has little chance of replacing needed insulin injections. It is in adult diabetes, which develops after age 35—and these cases comprise the overwhelming majority—that Orinase has proved to be most successful.

Like insulin, Orinase must be used in conjunction with diet. The diabetic must control his caloric intake carefully; must curb carbohydrates; must regulate fats and proteins.

Many adult diabetics can manage their disease with diet alone. A number of these, though, find it difficult to maintain the strict dietary regimen required so they take insulin as a means of easing the restrictions. But there are also diabetics to whom insulin is essential if they are to live.

Medical supervision essential

Replacement of insulin by Orinase must be done under close medical control. First the physician has to determine whether Orinase will work for the individual patient. If it will, then the doctor must determine proper dosage levels in relation to diet. On the average, the Orinase need varies from one to three tablets daily.

Your doctor can't put you on Orinase therapy until it is generally available. However, production is already in high gear and it is expected to reach the market this summer.

In evaluating the results of thousands of Orinase tests over the country, Dr. C. J. O'Donovan has been feeding the data obtained into a battery of electronic calculators. Recently he announced the following tentative results:

79.3 percent of the patients in the 41-80 age group showed good to excellent response to Orinase.

56.6 percent in the 21-40 age group showed good to excellent response. There is no relation between duration of diabetes and response to Orinase. Long-standing cases showed good response.

Body type of patient is no factor in Orinase response.

About 1 percent of the patients showed side effects. These were generally mild rashes which vanished although the drug was continued. None of the side effects were serious.

Orinase spurs new research

All factors considered, there seems little doubt that the development of Orinase represents another major medical break-through. For the patient who can now be freed from daily slavery to the needle, the advantage is immediate and obvious. But Orinase is also having more far-reaching effects.

Diabetes, it should be remembered, although it can be controlled, remains a mysterious disease whose cause is unknown and which can neither be prevented nor cured. In this area of diabetes investigation, Orinase as a research tool has caused new excitement.

Already scientists are arguing heatedly about how Orinase works. Some claim it decreases the secretion of an insulin-destroying substance in the liver. Others hold that it stimulates the production of insulin in the pancreas. Still others claim it intensifies the action of insulin. These are just a few of the theories. But behind the theories and the arguments, new research is being done. If the mode of action of Orinase can be found, it might lead to an understanding of the diabetes mechanism.

At the New York Academy of Sciences conference in February, Dr. Lillian Recant of the Washington University Medical School of St. Louis reported an experiment which may have far-reaching implications in arteriosclerosis, America's greatest killer, as well as in diabetes. Orinase, she reported, had stimulated the metabolism of fats and protein as well as carbohydrates in test animals.

If further tests prove that Orinase can help the body utilize fats, the new drug may also be useful in reducing the danger of hardening

[*Turn to page 191*

I was trying to make John a sleeveless sweater

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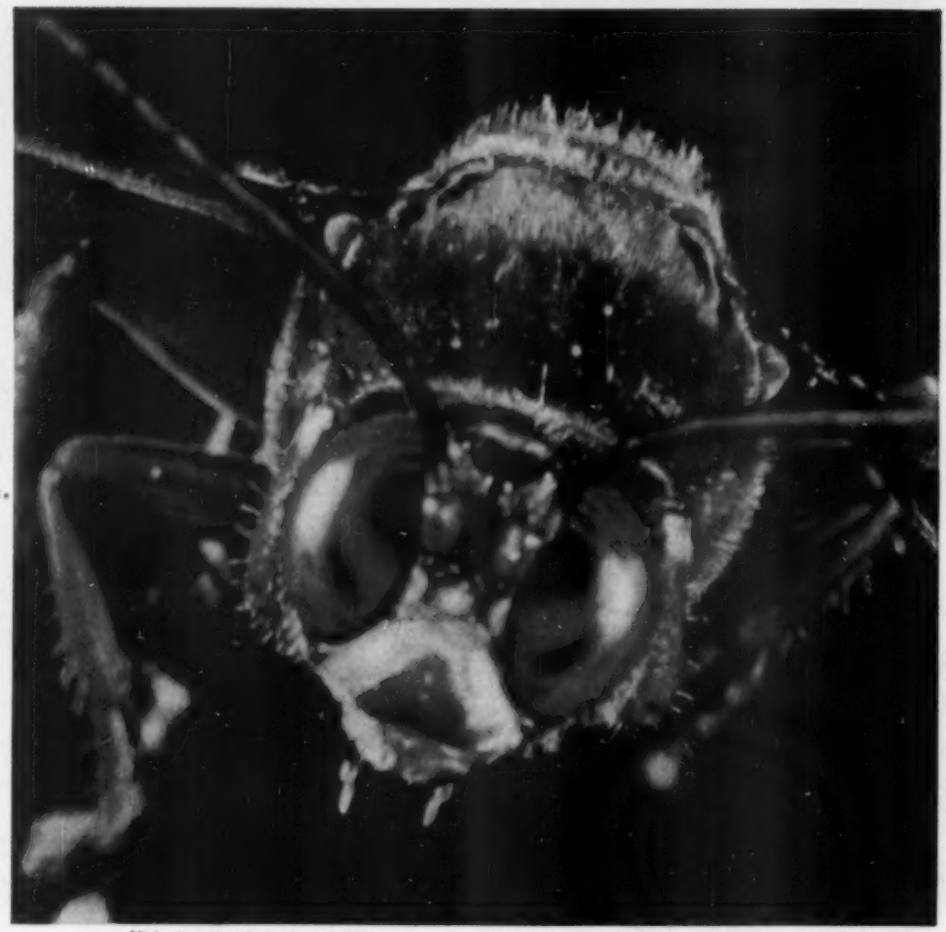
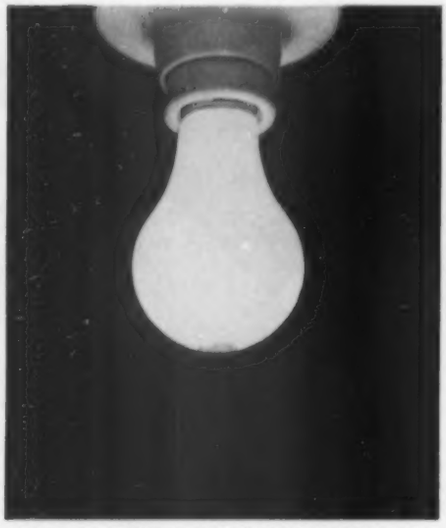


Night-time color photo, enlarged 50 times, of common cicada killer (sphecius speciosus) not being able to see a G-E Yellow Bulb.



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[*Turn to page 183*

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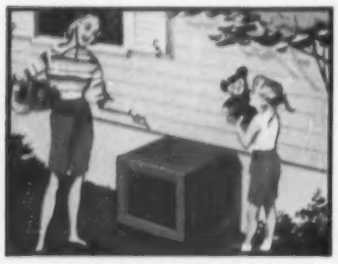

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AMERICAN-Standard

AIR CONDITIONING DIVISION
ELYRIA, OHIO

America's moral crisis

Begins on page 59

doctor's remark as "vicious and scandalous."

"I have some of those girls in my own church. They're good girls!" he insisted. He wanted the doctor run out of town.

Instead the doctor persuaded him to get the facts. Within 30 days the following facts presented themselves: one of the high school girls committed suicide because she was pregnant, two girls had abortions, one had an illegitimate child.

In a Cleveland hospital 176 cases of illegitimacy were traced and tabulated by Juvenile Court Judge Albert Woldman. He found that the average age of the mothers was 14 years, 6 months. "In one of our junior high schools I found 50 cases of pregnancy, in another 35—and this in just one school year," Judge Woldman reported.

Is this exclusively a big city problem, a product of slums and human blight?

Some of the headlines of the era of sex freedom indicate that the nation's home towns, fine residential communities, family towns, have had their share. A report from Indiana: "Bare 'Ring' of Teen-age Girls in Sex Orgies." And from Massachusetts: "A Police Raid Closes Boys-Girls' Sex Club." From Texas: "Teen-age 'Non-Virgin Club' Probed in Texas Town." From Illinois: "Teen-age Girls' Sex Club Shocks Town."

At one of our Midwest universities, a psychology professor set out to compile information on the "dating customs of college youth." He sent out a questionnaire to male students. Just what sort of a relationship did the boys wish to establish with the girls they took out? The results took the professor's inquiry on a tangent; 36 percent of the boys matter-of-factly stated that they would "try to go the limit" with a girl within their first three dates. That was the "relationship" they wanted.

If sex freedom alone has been the goal in the postwar era it certainly has been achieved. It has come to pass with flying colors. We have accomplished what Sociologist Pitirim Sorokin, of Harvard, calls a "sex revolution." We have gone further. Dr. Goodrich Schauffler, of Portland, Oregon, reported to a Congress on Obstetrics and Gynecology that America has arrived at "sex hysteria."

Is this what we were promised? Or did the liberators tempt us with something beyond sex freedom? We were to find, once the dungeon walls were down, a new freedom of the human spirit, an emotional contentment that would be like honey to the wormwood of frustration. We were to be expressively and creatively free—and then just watch those troublesome neuroses disappear!

This is what we were *promised*. What we actually found I saw etched upon the faces of a dozen girls, sitting in a somber circle at a social service agency in New York. Each was soon to have a baby. None was married. I had been invited to speak to them on the nature of love. I did, but what I learned from them seemed more revealing than any knowledge I imparted in the course of my talk to them.

"I don't think love had anything to do with it," said one girl of 19, speaking of the experience which brought her here. "I hardly knew the boy, and I've never even seen him since."

Another girl remarked, "It seemed all right at the time. All I really wanted was to be popular and have some dates. I guess the boys expect that sort of thing. That's what the other girls said, and, anyway, I sure wasn't the only one!"

A quiet girl with a drawn, white face, a little older than the rest, 22, spoke very little until I mentioned "loyalty" as one of the ingredients of love. Then she said, "I was in love. I wanted nothing more in the world than to marry him—and I still would marry him. I kept saying we should wait, wait. But he said I was old-fashioned and I began thinking I was. When I found out, well, about this, I told him. . . ." The girl cried. The rest of the story was in her case file: when she told the boy about it—the boy she was in love with—he shouted at her, blamed her, and abandoned her.

These were girls for whom sex freedom had been a trap; they had walked into it and it had snapped tight. But suppose they hadn't been caught? In illicit sex relations, even for the "lucky," there is the constant fear of pregnancy, the dread of disease, the threat of abandonment and heartbreak, and the erosion of self-respect. Morality, in the past, drew heavily upon these arguments in building its case for virtue. But today there are other arguments, perhaps more valid, in support of the moral position. They arise within the human spirit itself and have been discovered there through the persistent probings of psychiatry.

When the wave of sex freedom was gathering momentum after World War II, a Department of Health Clinic in San Francisco undertook a study of promiscuity at close range. Two thousand girls, over a period of years, were given psychiatric examination and treatment, not only to aid in their rehabilitation but to throw light upon promiscuity itself. What did the girls get out of the forbidden experience? Thrills? Pleasure?

When the study was completed, the San Francisco Clinic defined promiscuity in two words: "unhappiness disease." The girls had fled to the vaunted refuge of sex freedom as an escape from reality's problems, just as others like them fled to heroin or marijuana. The lesson they learned was the same: while reality may be a rough road, escape is a precipice.

Even transitory pleasure was ab-

[*Turn to page 218*

PLANNING A NEW HOME?

Let this MODERN Electrical Protection end forever the nuisance of blown fuses

In planning your new home (or when modernizing the wiring of an old home) be sure YOU include a Cutler-Hammer Unit Breaker. Then when an overload makes lights blink out, you need only reset a little lever that has snapped out of position . . . and service is restored. No hunting fuses, nothing to replace, nothing to buy. So simple and so safe a child can do it.

The Cutler-Hammer Unit Breaker is so good looking you need not hide it. Put it in your kitchen or wherever it will be most convenient. Have your new wiring figured *two* ways, with fuses and with a C-H Unit Breaker. You'll be amazed at the slight difference in cost. Write *now* for free booklet.

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FREE BOOKLET Tells facts about new, better home electrical protection. Write TODAY for your copy.

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BLACK HILLS

OF SOUTH DAKOTA

It *takes* a family to see and do and enjoy all the things you'll find on your Black Hills vacation! You fish, golf, ride, hike, sight-see and loaf—in a setting so fresh and unspoiled you can't *help* having fun! For a *family* vacation, come this summer to the beautiful Black Hills of South Dakota.

Write for FREE *color folder*

SOUTH DAKOTA DEPARTMENT OF HIGHWAYS

A. S. Pankow, Pub. Dir., Pierre, South Dakota

No sooner planned than painted . . . *with a latex paint-together*

Even Dad (who's all thumbs) will do a really smooth job in a latex paint-together. Latex paint flows on evenly without a brush or lap mark.

And Brother (who's all for speed) can do his share in no time. Sis (who's thinking of her date) needn't worry about stained hands . . . latex paint washes off in plain water. Junior (who's in charge of "Coke"*) won't have to worry about finger marks any more . . . they wash right off latex-painted walls. And Mom (directing the job in her smart McCall's Pattern apron and pants made of Topsail† fabric) will have a beautiful new room ready for a party the same night! Latex paint dries so quickly without painty odor.

Dow is a leading supplier of latex to paint manufacturers. THE DOW CHEMICAL COMPANY, Midland, Michigan. Plastics Sales Department PL1800A.

LATEX T.M.

"Coke" is a registered trademark of The Coca-Cola Company
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YOU CAN DEPEND ON DOW

Room beauty
starts with a
Bruce Block Floor

You can choose any decorative scheme you like...and be right...when your floors are Bruce Block. The modern pattern of this solid oak floor has high style, and there's lasting beauty in the interesting grain and coloring. Bruce Blocks are completely finished at the factory for economy and lifetime protection from hard wear. They can be laid over wood or concrete subfloors. Ask your architect, lumber dealer or builder for details; or write Bruce for color literature.

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World's largest maker of hardwood floors

BRUCE

BRUCE HARDWOOD FLOORS

BLOCK • STRIP • RANCH PLANK • FIRESIDE PLANK

The Briggs enjoy their outdoors as much as space inside. Tom built terrace of brick laid in basket-weave pattern. Here, where glass is well used, well placed, you'd have privacy even on a city lot.

While still holding to Traditional feeling, home's simplicity gives it Contemporary flair—in clean, unbroken roof line; graceful unity of solid brick walls, glass, and plywood panels.

Look what they got in a small house

Begins on page 26

Brick and exterior plywood, framed in batten strips, form exterior walls. Windows are designed to scale of plywood panels, then similarly framed. Glass, plywood, and brick are carefully combined—where one material doesn't detract from another.

Entrance is defined by brick shelter wall that forms base for plant rack. Carport is well located for conversion to family room.

Five Star home 2706 is all-out Contemporary plan, but you can't miss Traditional feeling inside or out.

Fireplace is dominant feature of living room, providing warm gathering spot in precise center of family activities. Raised concrete ledge and hearth make fireplace easier to keep neat. When there's no fire, the Briggs use cantilevered ledge as low table.

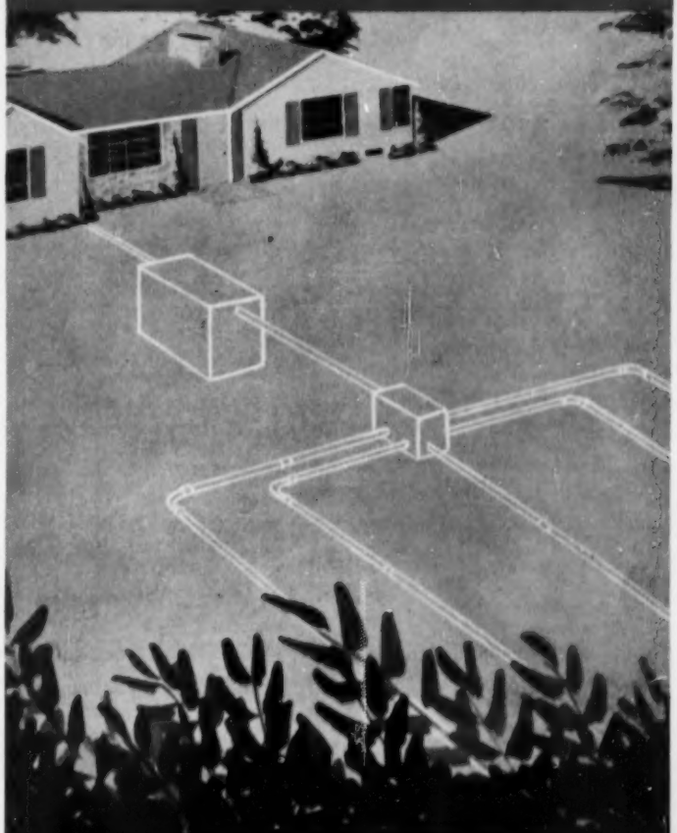
Glass fills almost entire 22-foot width of living-room wall. While Five Star home 2706 lends itself to variety of facings, proper orientation has window wall in living room viewing rear yard.

Fireplace is defining wall between living and dining rooms. Louvered swinging door (right) is to kitchen.

More on page 181

YOU'LL HAVE A DEPENDABLE, TROUBLE-FREE

SEPTIC TANK SYSTEM



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YOU SAVE because Bermico is quick, easy and inexpensive to install. Once laid, you can forget about it. Bermico will give you the utmost in satisfactory, trouble-free service.

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Please send me your 50¢ booklet. "How and Where to Install a Septic Tank System." I enclose 25¢ in coin or stamps.

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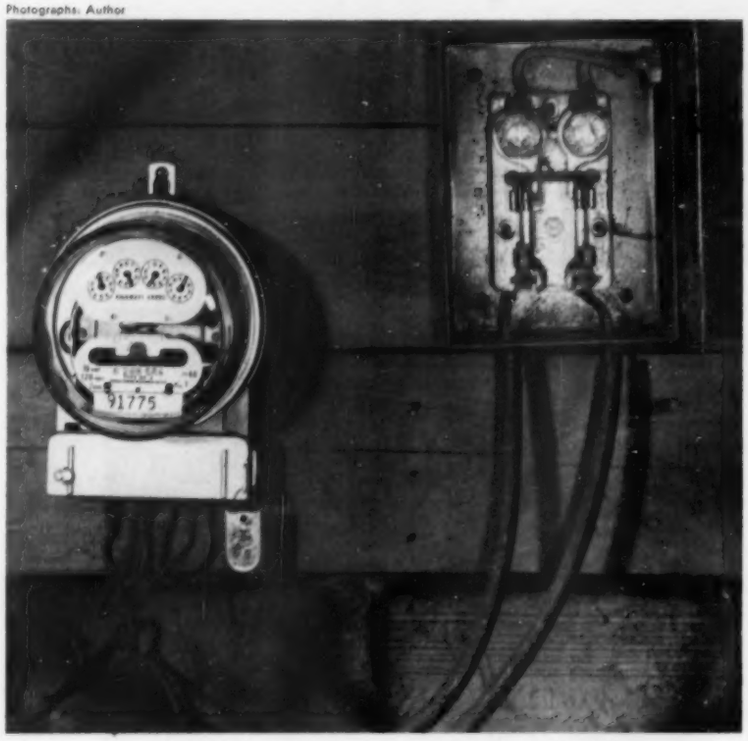
How to be safe with electricity

Electrical safety is up to you. Inadequate wiring is probably the greatest danger because it's the least obvious. You can spot a frayed cord—and you should know better than to play with electricity with wet hands. Here are all the hazards you should watch for

Photographs: Author



Trouble spot—and potential danger: Two-wire, one-circuit system, typical of old homes, produces chain of hazards that can result in fire.

How many hazards in your home?

Here is a summary of potential dangers in working and living with electricity every day

Entrance panel
1 Use fuses of correct size; never oversize.
2 Never use penny as substitute for fuse.
3 An entrance panel should not have exposed wires.
4 Ground neutral (or third) wire at panel.

Basement, workshop, and utility
1 Always ground power tools.
2 Ground your washing machine.
3 Don't touch cords or appliances with wet hands or while standing in damp locations.
4 Use heavy rubber cords for motors, motor-driven gear.
5 Install porcelain sockets instead of metal ones.

Bathrooms
1 Locate wall switches away from bath or shower.
2 Never touch electrical device at same time you touch part of plumbing system.
3 Eliminate pull-chain sockets from the bathroom.

Living areas and bedrooms
1 Discard cords that are frayed or have exposed wires.
2 Avoid using extension cords for more outlets.
3 Replace broken plugs, sockets, outlet covers promptly.
4 Never touch the inside of a socket.
5 Do not string cords around nails, pipes, under rugs.
6 Keep light bulbs away from clothes in closets.

Kitchen
1 Avoid touching appliances, plumbing at one time.
2 Pull the plug, not the cord, to disconnect appliance.
3 Use appliances approved by Underwriters' Laboratories.
4 Never leave cords plugged in within reach of children.

Terrace and outdoors
1 Avoid use of metal sockets.
2 Use moisture-proof rubber cords, plugs, sockets.
3 Use weatherproof outdoor outlets of permanent type.

Wiring
1 Touch exposed wires only after current is turned off.
2 Disconnect electrical device before making repairs.
3 Replace bare wires; repair loose wires, poor connections.
4 Be sure your wiring meets National Electrical Code.
5 Have licensed electrician do your wiring and repairs.
6 If circuit is double-fused, have it corrected.

By Robert Hering

The electrical industry maintains rigidly high standards in the manufacture of electrical devices. Otherwise, our homes would be potential death traps. It's only through carelessness and lack of knowledge on our part that electrical accidents occur at all.

There's no guesswork about what electricity does. You can be sure that when a circuit is closed, current will flow. Becoming *part* of that circuit is the one thing you want to avoid.

You close a circuit when you turn on a light or an appliance. It isn't necessary to have two wires for current to flow. Anytime you are grounded and touch a live wire, you complete a circuit and current flows. Shock is produced instead of light.

Most metals are good conductors of electricity. Water is an excellent conductor. And the human body has a high water content. The reason bathrooms are such dangerous spots for shocks is that most plumbing fixtures are grounded through water pipes. That's why all appliances and switches should be located away from a bath or shower.

Also, a material that is a poor conductor when dry becomes a good conductor when wet. The better the conductor the more current [*Turn to page 178*

The Fairlane 500 Town Victoria

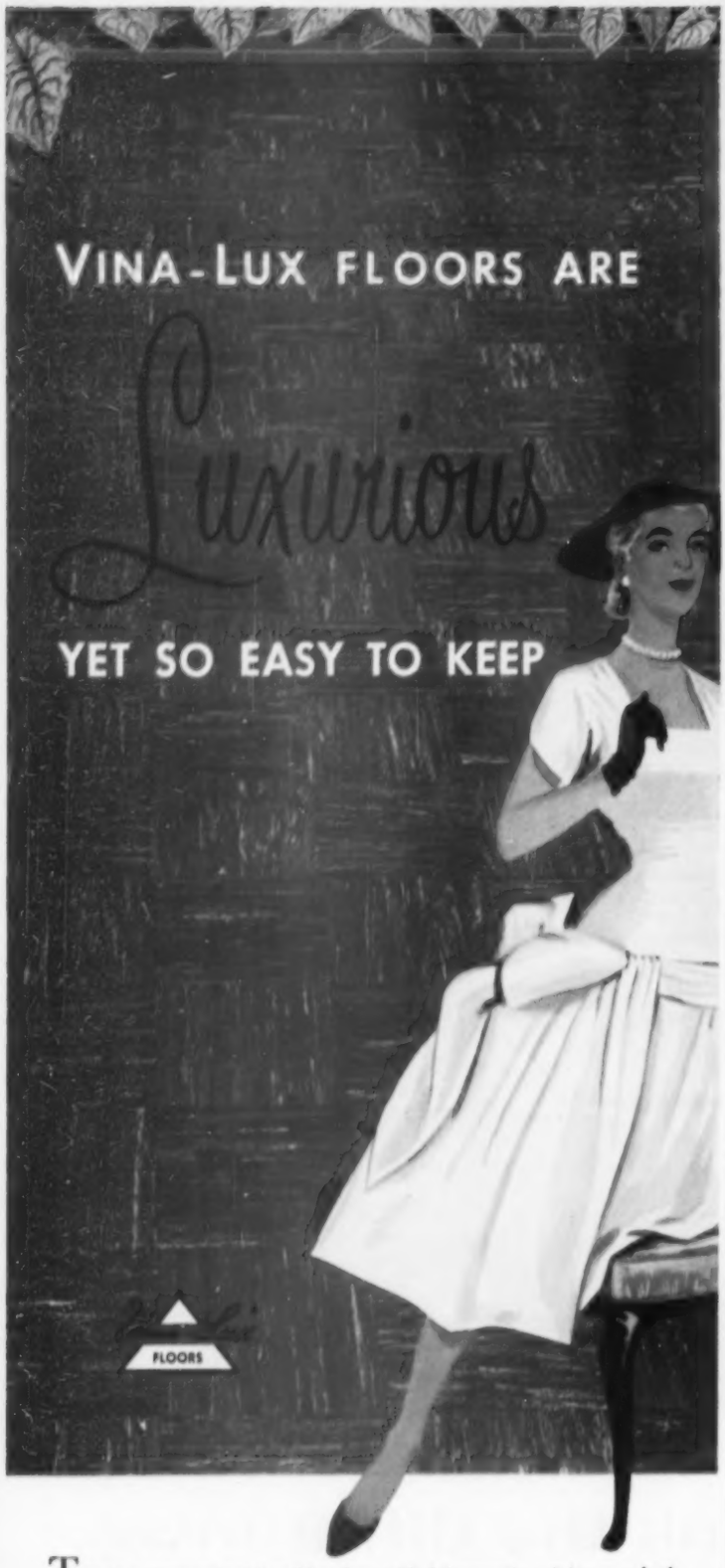
Buy a FORD and bank the difference

It's yours for half the fine-car price . . . runs for less . . . resells for more.

When you're basking in the reflected glory of a '57 Ford, it's hard to think of your new beauty as a business investment. When you're whispering cross country on its Thunderbird V-8 wings, the thought of selling or trading this companion in pleasure is furthest from your mind. Yet in terms of cold cash-value, *this* new kind of Ford is the hottest news of the year.

It's a completely new kind of Ford from the wheels up. There's a brand-new frame, suspension and body all bolted and bonded into one solid, silent unit. Its advanced styling will set a trend for years to come. Then, under the hood there's ultramodern power from a wide choice of Thunderbird V-8 engines or the famous Mileage Maker Six. And Ford is a car that's proved its ability to take it. It set 458 world speed and endurance records at Bonneville, Utah. No wonder Ford is called the fine car at half the fine-car price. No wonder Ford is worth more when you buy it . . . worth more when you sell it!

There's a new kind of value in the new kind of **FORD**



There's a "luxury look" to Vina-Lux with *Micromatic veining* — a look of new beauty in texture, color and pattern, because *Micromatic veining* gives you softer, more subtle appearance for your floors. And it's exclusive in Vina-Lux!

Practical, too . . . because Vina-Lux needs very little care—is comfortable, safe underfoot — impervious to normal foot traffic — surprisingly economical. Now in 21 colors at your dealer. Write for color folder today.

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AZROCK FLOOR PRODUCTS DIVISION

UVALDE ROCK ASPHALT COMPANY

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AZROCK FLOORING PRODUCTS

How to be safe with electricity

Begins on page 176

it is able to carry. Certain nonconductors, such as rubber, are used as insulation to channel the current and protect you.

It's current amperage, not voltage, that shocks and kills. The normal adult man can stand about 1/7 the current used by a 7½-watt bulb. With more current, the person freezes and cannot pull away.

If that should happen to someone when you're around, don't try to touch the person without insulating yourself. Use a wooden chair or some other nonconductor of electricity to push the person and break the circuit. Or, if you're wearing rubber-soled shoes, give him a quick shove.

You can become part of a circuit in a number of ways. One of the most common is when you touch an appliance that is improperly in-

[*Turn to page 189*

Many portable power tools are provided with three-wire cords. Third wire should be grounded. Tool shown has handy plug that can be grounded to outlet screw (outlet must be grounded to conduit to be effective).

Tool is grounded when three-prong plug is inserted. Where ground wire is attached separately, always ground tool before plugging it into outlet.

You can quickly ground any appliance with a length of wire and grounding clamp.

Just bare both ends of the wire. Then attach one end to frame of appliance. Loosen a screw or bolt — and fasten as shown. Be sure metal contacts are scraped clean. Use a washer for better contact.

Attach the other end of the wire to a grounding clamp. In turn, the clamp is secured to a water pipe or ground rod.

Use the proper wire size for grounding (No. 12 or 14). To give maximum protection, good connections are important.

Easiest way to ground washer is to install hose with grounding wire molded into rubber. Your dealer can supply one.

Grounding hoses are stamped or tagged stating they contain a ground wire. With this type of hose attached, the washer is grounded through water pipe.

Make this year's paint tomorrow's protection

You can stretch the years between repainting with these colorful Glidden exterior finishes!

Now you can do a one-coat white house-paint job to outlast many two-coat jobs! Glidden IMPERIAL has 50% more ultra-white hiding pigment. Saves time, money. Self-cleaning. *(Sold in Canada as "Endurance Ultra White".)*

End staining, fading, flaking on asbestos-shingle siding, masonry, stucco. SPRED GLIDE-ON vinyl-latex house paint gives you 37 new fade-resistant colors that stand all weather and dirt conditions.

SPRED GLIDE-ON flows on smoothly, easily. Use brush, roller, spray. Goes on twice as fast, dries dust-free in minutes. Beautiful suede-like finish keeps out moisture, lets inside vapor escape.

You get superior protection, "picture-book" colors on wood siding, with ENDURANCE house paint. Choose from 36 weather-resisting pastels and deep tones. Easy to apply.

Get professional staining results on wood, plywood, veneer without tedious effort. Use GLID-TONE indoors or out. 62 new pastel colors and natural wood tones.

Washable, weather-resistant beauty for porch and lawn furniture! New SPRED LUSTRE all-purpose alkyd enamel gives a velvety sheen to all woodwork—indoors or out! 140 colors—all smooth, easy to apply!

Glidden *Pacemaker in Paints*

The Glidden Company, Cleveland 14, Ohio.
In Canada: The Glidden Company, Ltd., Toronto, Ontario. SPRED products also sold by dealers for the following paints: HEATH & MILLIGAN CLIMATIC • ROYAL • T. L. BLOOD

QUALITY Glidden PRODUCTS

© 1957

Old-type swing door used to bang refrigerator, cabinets—and housewife!

what a difference a different door makes!

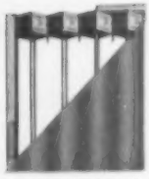
See the change that a handsome MODERNFOLD door makes! It folds *inside* the doorway, saving all the space ordinary door-swing steals. It can't bang furniture or other doors, can't block traffic or pinch fingers, can't blow shut. But it can—and will—give a lifetime of convenience.

This door can take it! It has an inner framework of double-strength steel, yet opens and closes at a touch. Double-hinged steel plates, top and bottom, give a smooth, accordion-like action. And every hinge plate is welded to steel rods that prevent twisting, pulling or swaying.

A MODERNFOLD is *all door*. Not just one side, but *both* sides have evenly spaced folds, open or closed. And *both* sides are covered with a flexible, easy-to-wash vinyl fabric that won't warp, crack, fade or peel. And nobody but MODERNFOLD gives you such a wide range of beautiful colors and unusual textures to choose from.

There's a MODERNFOLD for any opening in any home or building. Don't be satisfied with anything less. MODERNFOLD doors are sold by leading lumber dealers, department stores, decorating shops. Or look in the classified directory under "Doors."

Attractive new MODERNFOLD door always stays *inside* the doorway—and *out of the way!*



Here is MODERNFOLD'S inner framework of steel. A door without this steel structure is like a body without a spine.

Only MODERNFOLD offers such a wide selection of decorator colors and fabric textures.

Look for the MODERNFOLD name on the handle. When you find it, you've found *quality* that lasts a lifetime.

Find your nearest dealer in the "Yellow Pages."

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DOORS
®
THE FIRST AND FINEST IN FOLDING DOORS

The "Custom" line; the "Spacemaster" line; available anywhere in the U.S.A. and over 60 foreign countries.

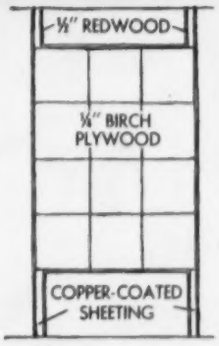
NEW CASTLE PRODUCTS, INC., Dept. F2, New Castle, Indiana • In Canada: New Castle Products, Ltd., Montreal 23 • In Germany: New Castle Products, GMBH, Stuttgart.

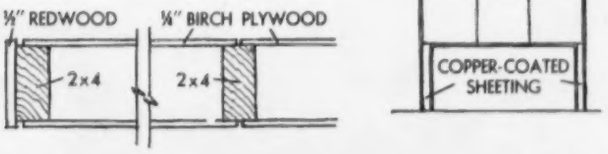
Look what they got in a small house

Continued from page 175

Pleasant vistas through living areas are result of open planning. Still, kitchen, dining, and living areas are well defined from one another.

Entrance hall is attractively set off from dining room by screen of birch plywood squares. Copper strips outline plywood squares in frame. Half-inch redwood posts support unit. (See details in drawings at right and below.)





Louvered folding doors open pass-through between dining room and kitchen. Birch shelf and pass-through divider expresses open feeling of house—and is practical storage unit. Shelves have sliding glass doors. Pine linen chest below divider was Tom's handiwork.

How to get plans, page 183

The SECRET that keeps our house young

"Ever see a house that looked young—even after eight years? Well, take a look at ours. Eight summers and winters, and our concrete still looks like the day it was poured. That's a result of what the builder calls 'hidden strength.'

"Our place has 'hidden strength' because we knew enough to have our concrete reinforced with welded wire fabric. Set in the concrete, welded wire fabric acts as a steel bond, resisting cracks caused when the soil settles or heaves. I was a mighty proud keeper of the budget when the builder told me that reinforcing made our concrete *30% stronger* for less than 10% of the cost of the concrete. And because our reinforced concrete will last *so* much longer, the bargain gets better every year. I can't tell you how glad we are that we asked the question,

"is it Reinforced"

Are you planning to build, buy or remodel in the future? If you are—be wise. Get years and years of *extra* service out of your concrete floors, foundations, stairs, drives, walkways and patios by reinforcing with welded wire fabric. You'll be glad you did. And remember, reinforcing must be installed when your home is built—*it cannot be added later.* For complete information on how practical it is to reinforce your concrete, simply mail the attached coupon.

Wire Reinforcement Institute, Inc.
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Please send me promptly a copy of your manual, "Reinforced with Welded Wire Fabric."

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Compatible color by Briggs Beautyware

enhances your most inspired dreams of decoration!

THE EMPEROR
Distinctive low, one-piece design and very quiet operation make it the ultimate in luxury and utility.

And Beautyware adds the privacy of silence!

Color *so* beautiful it inspires all your decorative talents! Plus perfect practicality! You live with both when you plan a Beautyware bathroom. Sky Blue, Coral, Sea Green, Sandstone, Pearl Gray—each glowing compatible color has a striking beauty of its own, each compliments any décor you select. All this—plus sparkling easy-clean surfaces and the privacy of silence, too!

BRIGGS MANUFACTURING COMPANY • DETROIT, MICHIGAN

BRIGGS

B E A U T Y W A R E

Look what they got

Continued from page 181

How to get plans

Five Star Home 2706, which you have just seen, is one of a monthly series for which you can buy complete plans with following features:

★ **Designs by America's foremost architects,** ranging in style from Cape Cod to Contemporary. And all are planned to give you the maximum in comfort, convenience, beauty, and *value* for your dollar.

★ **Detailed working drawings,** from which your builder will erect your home, are complete in every way. The cost is *$7.50 per set*, and includes . . .

★ **Complete specifications** that outline quality of materials and workmanship that will assure sound construction; and . . .

★ **Builder-owner agreement,** suggested legal contract to ensure home is built as specified.

★ **Cost-finding list of materials.** (List is available at *25 cents* purchased separately.) With this materials list, your builder or building-materials dealer can compute in advance the approximate cost of your home.

These Five Star home plans may be ordered from the firms listed on page 171. In many localities, you can order these plans through your building-materials dealer. Or, you can buy them direct from *Better Homes & Gardens*, 1714 Locust Street, Des Moines 3, Iowa.

Tips for starching and tinting

Begins on page 130

out tub immediately to remove any excess starch from the machine.

Because washers vary and because your washer may have some special features, these simplified steps may need a little "tailoring" to suit your washer. Be sure to check the manufacturer's instruction book before you start.

Tinting—the easy way in your automatic washer

Tinting is the coloring of a fabric with a "dye" using *hot* water direct from your water heater. A good rule to follow: If you can *wash* it in the washer, you can *tint* it in the washer. (Dyeing, another process, requires *simmering* water and is the best way to get true depth with black, navy blue, and other dark colors. *Dyeing* cannot be done in your washer.)

However, you can *tint* for dark colors in your washer. The results will be pleasing although you will not get full depth of color.

Tinting works well if fabric is white or very light in color and you want to get another light or medium color. For a deeper shade, use more "dye," hotter water, or increase the time.

Washer-tinting is easier and assures even results for clothing or household articles that you would ordinarily wash in the machine. It is particularly helpful when tinting heavy and bulky articles such as slipcovers, draperies, cotton rugs.

Be careful not to spill any "dye" on the outside of your washer—it may stain the finish.

How to do it

1 If possible, remove old color in fabric for best results. Use a packaged color remover in simmering water. This remover is safe for any fabric that is safe in hot water. (*Note:* Never use color remover in your washer.)
2 Remove spots or stains. Then wash clothing to be tinted. When done, remove from washer.
3 Following instructions on package for amount, dissolve "dye" in pan with hot water. Heat to simmer, but do not boil. Strain through clean cloth into another pan before adding to washer. (This helps prevent spotting.)
4 Fill washer with the hottest water available. Use the same amount as for regular washing.
5 Stop washer. Add "dye" solution.
6 Start washer and let "dye" solution become thoroughly mixed.
7 Then stop washer again. Add wet articles. Do not crowd washer. Articles must have room to move freely in the "dye" bath.
8 Start washer again, setting dial on longest possible washing time. (If washer has manual controls, give the article being tinted from 10 to 30 minutes in "dye" bath before draining the washer.)
9 Let go through normal rinsing cycles, using warm or cool water. Spin. (Note: If you have wringer-type washer, *do not* put the tinted articles through wringer. Squeeze by hand, blot in old towel.)
10 Dry clothing in dryer or in breezy, shady place until almost dry—but still damp to touch.
11 Press with warm iron—never hot.
12 Clean tub of washer *at once*. Fill with hot water, add water conditioner, and amount of soap or detergent you usually use for a wash. Set dial for 10-minute wash or rinse. Rinse, spin out.

Inspect for traces of "dye." With damp cloth or sponge, wipe soap dispenser, lint tray, lid, or door. If deep shade was used, add bleach to the water you use for rinsing sponge.

Helps for builders

Begins on page 171

Oregon
Portland—Meier & Frank Co.

Pennsylvania
Philadelphia—Gimbel Brothers
Pittsburgh—Joseph Horne Co.

South Carolina
Columbia—Devine Street Furniture House
Greenville—Mayfield's, Inc.

[*Turn to page 215*

Head won't loosen Handle won't break

Here's the finest hammer made. Shaft is gleaming, chrome-plated tube of boron alloy steel. Won't bend or break. Polished head is locked permanently to shaft. Tough neoprene-fiber cushion grip absorbs shock, won't slip wet or dry or in gloved hand. See ROCKET hammers at your hardware store. True Temper Corp., Cleveland 15, Ohio.

New JET ROCKETS, too. Bell face design, built like the famous ROCKET but with jet-black head and black cushion grip. Only $3.95.

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New house or old house?

Begins on page 80

There is easy flow, yet definition, between areas in Lucas house. View across living room to porch shows how floor covering, furniture make each space segment individual.

"Study" is gained by planning spot for desk in far corner. Room opens up with exposed beam ceiling, three large windows overlooking lawn, continuation of space to porch.

House bends around sunny, concrete terrace and shields it from streetside.

There's an easy flow to and from front of house (without marching through), to screened porch, kitchen-dining area, and master bedroom.

Roof is cedar-shake shingles. Two foot overhang has no gutters; gravel drain strip below catches runoff water.

On other side of living room (from picture at top) there's a comfortably contained conversation corner around the raised hearth fireplace. The wall area surrounding windows to back lawn was wisely put to work with neat encirclement of bookshelves and storage cabinets.

There's a pleasant textural variation here—rough pile of carpeting, brick, textured wall covering, and smooth planking of open-beamed ceiling.

In area 10x10 are three choices of spots to eat. When entertaining, table in foreground is unfolded. Glass-top table overlooking back lawn is most often used. Snack counter's used as serving surface for formal meals as well as informal family lunches and breakfasts.

Bluestone of entry continues past counter to kitchen. Planning desk next to door to garage and utility enhances kitchen.

More photographs on page 186

End *"arm's length"* Cooking

with a Built-in

FRIGIDAIRE *French Door* WALL OVEN

A Frigidaire exclusive! Gently pull one French Door and both swing wide open—completely out of the way. The whole oven is at your finger tips—so easy to use, so simple to clean, so very much safer. Sturdy shelves roll all the way out and provide their own "set down" space without handling hot utensils. And since each door is only ten inches wide you can install a Frigidaire Wall Oven in narrow areas where aisle space is at a premium.

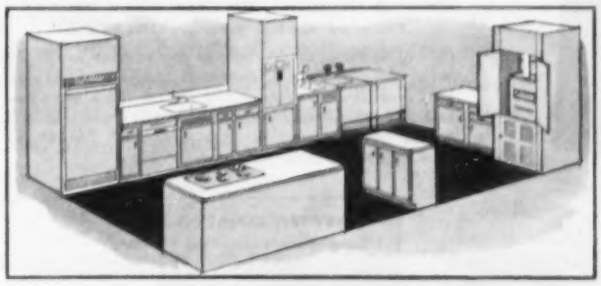
And that's far from all! Frigidaire Imperial Wall Ovens are completely automatic through the full range of oven needs—including rotisserie cooking in most models if you wish! And one model, with the exclusive Wonder Oven, is two-ovens-in-one in one-oven-space and at one-oven-cost. It broils and bakes at the very same time. All models are remarkably easy to install and available in Satin Chrome or in the stunning Chrome-frame long-lasting Porcelain Enamel colors listed below. Start your built-in kitchen with a Frigidaire French Door Wall Oven. There is no other oven like it in the world in beauty, in convenience and in famous Frigidaire oven performance.

COLORFUL COMPACT BUILT-INS

...all by Frigidaire

Wall ovens, cooking tops, fold-back cooking units, dishwashers, disposers, full-home air conditioning and heating—Frigidaire has them all. Plus Sheer-Look Refrigerators, Food Freezers, Ranges and Laundry Pairs that build-in and blend-in with smartest kitchen styling. And in some models, you can choose from Snowcrest White, Mayfair Pink, Sherwood Green, Stratford Yellow, and Charcoal Gray. Let your imagination be your guide to a truly wonderful, magically convenient Frigidaire kitchen.

For illustrated literature see your Frigidaire Dealer or write FRIGIDAIRE DIVISION, *General Motors Corporation*, Dayton 1, Ohio.



'57 FRIGIDAIRE *Built-ins*

GM GENERAL MOTORS

Trees thrive on proper diet, too!

The lovely trees on your lawn can't feed nearly as well as they would in a forest. You carefully sweep away the grass clippings and fallen leaves that should nourish them.

A scientific, deep-down feeding by Davey tree experts now will come close to restoring the balanced diet Mother Nature intended. Once well nourished, your trees will delight you with a burst of deep, rich green and the lushness of their foliage.

Your trees are the most precious adornment of your outdoor living. Give them the best of care! Davey care covers pruning, bracing, cabling, transplanting, lightning protection, cavity surgery, as well as deep feeding and all other tree-care services. And Davey men are trained with almost half a century of research and development!

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Enclosed is 25¢ in coin. Please send me a copy of, "Guide to Tree Beauty and Tree Care".

Name_____
Address_____
City_____ Zone____ State_____

New or old house?

Continued from page 184

Kitchen exemplifies compact planning throughout house.

Everything needed for food preparation is in one corner. Above: closeup of conveniences—roomy pot and pan drawers roll out on bearings, special spot for mixer, spice cabinet above a counter-top range with exhaust fan.

Picture left shows storage under snack counter for glassware, dishes. Window over sink overlooks front yard.

Master bedroom is at end of long, narrow sleeping wing. View just inside door shows how part of hallway is included to gain suite-like feeling. In hall wall there are king-sized husband-and-wife closets, chest of drawers between. Following dual role of other areas, bedroom has corner for knitting, reading, TV.

More on page 188

Vornado® COMPLETE HOME AIR CONDITIONING

Enjoy living in *every* room with Vornado's sensational new complete home air conditioner. Relax ... entertain in cool luxurious comfort such as you've never known before. Your family will be healthier, happier ... you'll be the envy of the neighborhood ... for Vornado just cools better.

Vornado's cooling system has two compressors. One operates continuously to control temperature and humidity. The second compressor goes on automatically when additional cooling is needed. Powerful blower silently moves large quantities of cool filtered air to every room of your home.

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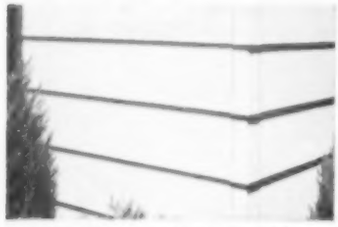
don't let NAILPOX ruin your home... USE ALCOA ALUMINUM NAILS

WHY RISK THIS ◆



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NAILPOX is the staining that results when nails rust.

You can prevent nailpox by using Alcoa® Aluminum Nails. They can't rust or cause unsightly rust stains. They need no countersinking or puttying. Paint lasts longer. Make sure builder uses them, and use them on jobs that you do yourself. Alcoa Aluminum Nails are available from your local hardware or building supply dealer.

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Find Your Nearest Dealer in the 'Yellow Pages'

ALCOA ALUMINUM

Your Guide to the Best in Aluminum Value

New or old house?

Continued from page 186

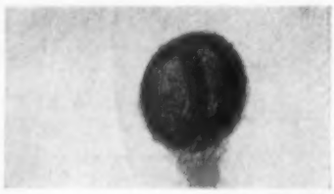
Looking across master bedroom, you see well-designed headboard which continues to corner. Same design's repeated on other side of bed. Through door is dressing room, followed by bath. There's wall of storage in dressing room, lots of drawer space in built-in vanity. Chair is one Lucases brought for almost nothing, gilded and re-covered.

In minimum space, theme of completely coordinated living continues. In master bath there's plenty of storage for towels and other accessories in cabinets under generous counter.

Light streams down on two mirrors from fluorescent tubes in coves over window. Good preplanning: telephone jack here. Phone may interrupt your shower but it won't take you far.

don't let CORROSION ruin your jobs... USE ALCOA ALUMINUM FASTENERS

GET THIS ◆



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Ordinary plated fasteners peel, blister and rust.

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For every home repair or workshop project, the very best fasteners you can use are made from Alcoa Aluminum. Your hardware or building supply dealer has a complete stock of screws, nuts, bolts and washers.

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9 ☐ Mohawk Valley
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Name _____ (PLEASE PRINT)
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How to be safe with electricity

Continued from page 178

sulated. That happens when current from the live wire reaches the shell or metal body of the appliance. If your body is grounded, either by standing on the ground or by touching a grounded conductor, such as a part of the plumbing system, you supply the connection and become part of the ground wire. The appliance in this case does not have to be turned on.

You may touch a defective appliance several times a day for a year or two without being shocked. But once you happen to ground yourself, you instantly close the circuit, sending current through you.

After appliances have been used for some time, there's always the possibility of the live wire leaking current to the appliance.

[*Turn to next page*

Always disconnect appliances before touching plumbing fixtures. Here, someone's about to clean mixer that's plugged in.

If person touches faucet and metal shell of appliance, a circuit could close that would severely shock or even kill—if current is leaking from live wire to body of appliance.

Wet hands and metal socket are dangerous combination, especially in basement.

In all damp locations, replace metal sockets with porcelain type. Or, better yet, install wall switches and outlets to control lights and appliances.

You can install insulating links in pull chains to guard against shocks. Even a string or cord (never wire) attached to a pull chain will insulate from shocks.

However, if the cord becomes wet, insulation is ineffective.

Replace frayed and burned cords immediately. Using them may result in severe burns or shocks. And they can cause fires where flammable materials are nearby.

Burned insulation indicates cords have been overloaded.

THE WONDER PAINT REMOVER

Strypeeze strips all finishes fast and easy...

SAVOGRAN

- Clings to upright surfaces
- Harmless to hands or wood
- Stays wet—stays put
- Unconditionally guaranteed

You needn't have gone to "finishing" school to make your home sparkle like new. Strypeeze does all the hard work for you! Available at paint and hardware stores everywhere.

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Kwikeeze cleans all brushes fast! Even the hardest brush softens in a jiffy with KWIKEEZE. No rinsing, no mess. Perfect for all bristles.

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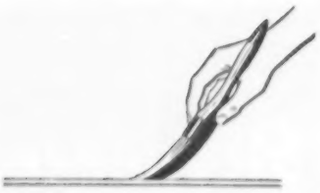


How to select a paintbrush

A good brush performs better... wears longer... saves you money

1 There are several qualities to look for when selecting a good paintbrush. First, see if there is (1) a full head of bristles in a firm setting.

Then, look closely at the individual bristles. They should be (2) finely tapered with slightly curled tips.

2 Make sure a generous portion of the bristles has tips which are (3) split or "flagged."

3 Your final assurance of a brush which will give excellent painting performance is bristles which (4) vary in length.

4 A brush with these qualities has a greater working and paint-holding capacity—eliminates excessive dipping.

5 It will (5) release a finish smoothly and evenly on any surface. You save time, paint with ease, do a professional-looking job.

Now, better performance with improved TYNEX® nylon bristles

When buying a paintbrush, look for (6) the trademark TYNEX on the handle. Quality paintbrushes made with bristles of TYNEX nylon give you better performance. They pick up a full load of paint at every dip and lay on a smooth, streak-free coat.

6 And brushes bristled with TYNEX have durable bristles that (7) clean easier . . . rinse thoroughly . . . dry quickly—are always ready for re-use.

7 **FREE**—additional facts everyone should have on choosing and using a paintbrush. To get this valuable information without cost or obligation, just send your name and address to E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Dept., Room 636, Du Pont Building, Wilmington 98, Del.

TYNEX is the registered trademark for Du Pont nylon bristles.

DU PONT TYNEX® NYLON BRISTLES

Better Things for Better Living . . . through Chemistry

How to be safe with electricity

Continued from preceding page

You also close a circuit when you touch both wires in a cord—usually where the insulation is broken. Then the current shorts across from the live wire through your hand to the ground wire.

This becomes a worse hazard when small children with moist hands play with frayed, poorly insulated cords. Cords should be repaired promptly and never left plugged in.

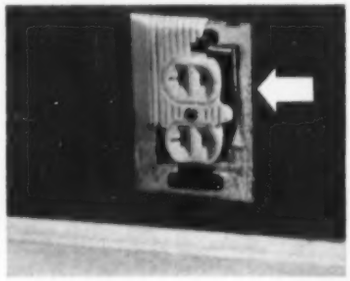
Another way you can close a circuit is by touching two electrical devices when one or both are defective. To prevent such accidents, most portable power tools are provided with a third wire to be used for grounding the tool.

In addition to the danger of shock, a flash from a poor connection or from loose wires may cause severe burns. Besides the personal hazards of shocks and burns, defective appliances and inadequate wiring can cause fires.

You should avoid using extension cords as substitutes for more outlets and circuits. Usually these small-size extension wires become overloaded. Wires heat up, burning and cracking the insulation.

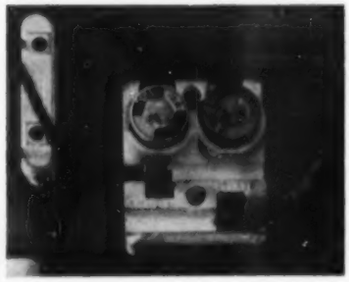
Then, if the two wires should touch, the flash could easily ignite some flammable material such as a window curtain, a rug, or a newspaper. And, of course, the shock hazards are always present wherever wires are exposed.

If you have several extension cords strung around the room, they indicate your home is inadequately wired. Your electrical contractor will be glad to inspect your wiring.



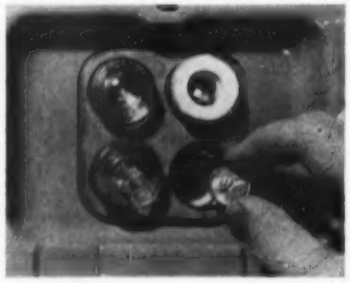
Children love to explore—and a broken wall or floor outlet is a dangerous place for small hands.

Replace broken and cracked plates, plugs, switches promptly. For floor outlets, use metal plates that won't break.



In older homes, you may find double-fuse block like this in circuit. They are often in attics. And a few old single-circuit panels are double-fused.

In modern electrical systems, third wire (neutral) is grounded—and should not be fused. If it is, there's shock and fire hazard.



Never use penny in place of a fuse. When you do, you eliminate all the protection your entrance panel normally gives.

If there's short (blown fuse indicates short or overload) in circuit bridged by a penny, there's more chance of fire.

Using oversize fuses may cut down number of trips to fuse panel, but you reduce protection proper-size fuses provide.

Use 15-ampere fuses in lighting circuits; 20-ampere fuses in appliance circuits. If circuits blow frequently, it indicates home is inadequately wired.

in resin-free oil base Liquid Raw-Hide and new water-thinnable pure acrylic stains and paints.
See your dealer or write for free literature.

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Quick-Acting, Soft, Cushioning Foot Plaster

If you use Moleskin, you'll prefer Dr. Scholl's Kurotex. It is so much softer, more cushioning, protective. Easy to cut to sizes and shapes to meet your particular foot needs. Economical! Relieves corns, callouses, bunions and tender spots on feet and toes, caused by new or tight shoes. Flesh color. At Drug, Shoe, Department, 5-10¢ Stores.

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Do your false teeth annoy and embarrass by slipping, dropping or wobbling when you eat, laugh or talk? Just sprinkle a little FASTEETH on your plates. This **alkaline** (non-acid) powder holds false teeth more firmly and more comfortably. No gummy, gooey, pasty taste or feeling. Does not sour. Checks "plate odor" (denture breath). Get FASTEETH today, at any drug counter.

OLD SMOKEY Nacogdoches, Texas

Is the city manager plan the answer?

NO

Continued from page 22

at your community's expense, they may be hired away. Many towns have lost to a higher bidder the man in whom they have placed an investment of both time and effort. Mayors who are residents of a community don't switch around in this fashion.

As an elected chief executive, the mayor working with a representative council is the center of energy and public leadership, as well as a focus of responsibility for both policy and performance. And he does his job according to an American tradition known and understood by most citizens.

The proof, I think, lies in the figures. Advocates of the manager plan are fond of pointing out how many new communities adopt it yearly. But they conveniently forget their plan has *not* found acceptance in far more, particularly our largest cities. There's good reason.

Cincinnati, largest managed city, has a population of 500,000. Of the 17 other communities of that size or larger, only one, Cleveland, has gone manager. And Cleveland turned thumbs down more than 20 years ago after a 7-year trial. Other large communities who have abandoned the system include Houston which gave it a 4-year try; Akron, Ohio; Trenton, New Jersey; and Waltham, Massachusetts; each after 3 years; Fall River, Massachusetts, and Tampa, Florida. In my own state, the city of Rhinelander abandoned the plan after 23 years; Stevens' Point after 8. Ashtabula, Ohio, decided it had enough after 32 years; Mason City, Iowa, after 17; Albion, Michigan; Cape May, New Jersey; King's Mountain, North Carolina; and St. Albans, Vermont, each after 13 years. Official statistics of the 52 abandonments give no idea of the number of towns which have considered the plan and then voted no.

In the last decade, and perhaps even longer, not one of our largest and most progressive cities has given the manager plan serious consideration. This includes Philadelphia, Pittsburgh, and St. Louis which have done outstanding jobs of municipal rejuvenation, as well as others where, despite the demand for reform, the manager idea failed to convince a majority of voters.

City manager advocates rarely point out that half of all council-manager cities are concentrated in six states—California, Florida, Maine, Michigan, Texas, and Virginia. Nor do they usually mention that a majority of local governments still operate under other systems.

In my opinion, no professional manager is a match for the sincerity and genuine interest in the people of a community held by elected officials. For too often, the manager—perhaps because of the very nature of his professional training—lacks the human touch, the warmth and the appreciation of the subtleties, nuances, and give-and-take of the man who's come up the elective way.

A pill instead of a puncture

Continued from page 168

of the arteries in diabetics—one of the hazards untouched by insulin. Furthermore, it may provide a way to reduce the arteriosclerosis danger to nondiabetics as well.

Whether Orinase will provide a key to unlock the stubborn mystery of the cause and possible prevention of diabetes remains to be seen. But, declares diabetes expert Dr. Rachmiel Levine, "the floodgates are open. Orinase is stimulating research as much as it stimulates the pancreas."

Credits

Screens can star in your decorating
Page 76

Paper collage
Decorator: Harry Francis, A.I.D.
Owner: Gwynn Robinson, Colorado Springs
Data: Lorraine Burgess

Leather panels
Decorator: Everett Brown Associates for the "Upholstery Leather Group"

Plastic with butterflies and leaves
Decorator: Don Williams, Younkers, Des Moines, Iowa

Page 77

Rattan screen
Decorator: Marion Heuer, A.I.D.
Owner: Raymond Pohn, Glencoe, Illinois
Data: Ruth Lee

Woven fabric
Owner: Dr. Robert Atkins, Pittsford, New York
Data: Mary Bausch, Nancy Harris

Shoji-screen cupboard
Decorator: Haygood Lasseter, A.I.D.
Owner: Edwin T. Reeder, A.I.A., Miami, Florida
Data: Elizabeth Clemons

Gay summer decorating
Page 68

Blue-paneled room
Decorator: Harry Francis, A.I.D.
Owner: Gwynn Robinson, Colorado Springs
Data: Lorraine Burgess

Cushioned window seat
Architect: Robert Snyder, A.I.A.
Owner: Noel Buckner, Walnut Lake, Michigan
Data: Mary Coughlin

Card room divider
Owner-designer: Robert Rodriguez, Belleville, Illinois
Data: Lois Rea

Harlequin doors
Decorator: Robert Cranley, A.I.D.
Owner: Robert Harpenau, Cincinnati
Data: Polly Cramer

Colored linen closet
Designer: Anthony Longinotti
Owner: Edgar Cohn, Beverly Hills
Data: Barbara Lenox

Pumpkin-turquoise den
Decorator: Gene Schneider Interiors
Owner: E. W. Henne, St. Louis
Data: Lois Rea

These Nations Are Catholic By *CHOICE!*

You hear it said today that the Catholic Church seeks to entrench itself as the established religion of any and all nations.

And you are warned that wherever Catholicism dominates, religious liberty is denied to others.

"Look at Spain!" the critics say, "and Italy and Colombia, too. And remember the Dark Ages and their persecutions!"

Implicit in these warnings, of course, is the suggestion that the people of so-called Catholic countries are compelled to remain loyal to the Church against their will. Any fair-minded person who really does "look at Spain" and other predominantly Catholic countries finds that they embrace Catholicism as a matter of choice, not compulsion.

People who take the trouble to "look" at the history of religious oppression are also often surprised at what they find. They discover that the religious persecutions — almost without exception — were actuated by political rather than religious purposes; and that the chief guilt for them should be laid at the door of the statesmen and ruling houses of the nations rather than the churches.

This fact was emphasized in an address to the Congress of the United States on January 8, 1826, by the then distinguished Bishop of Charleston, John England, who said: "... religion has been more frequently but a pretext with statesmen for a political purpose than the cause of persecution from zeal on its own behalf."

The Catholic Church, being universal, must exist under various flags and different political systems. In Colombia, for example, where the people are overwhelmingly Catholic, one statesman describes religion as "the fundamental pillar of our culture." The status of the Catholic Church in such a land would obviously be different than in the United States, where there are many faiths—all entitled to the same rights and privileges.

In 1916 Cardinal Gibbons, dean of American bishops, said: "Separation of church and state in this country seems to Catholics the natural, the inevitable, the best conceivable plan, the one that would work best among us, both for the good of religion and of the state." Speaking for the Bishops in 1948, the late Archbishop McNicholas said U. S. Catholics would not seek union of church and state even if they constituted a majority.

It may surprise you to hear that in at least one era of religious persecution, Catholics and non-Catholics were hanged from the same gallows. This and other dramatic stories dating back to the Middle Ages are related in a pamphlet which we will be glad to send free upon request. It will be mailed in a plain envelope—nobody will call on you. Write today . . . ask for Pamphlet No. BG-8.

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Right now your basement may be the victim of a destroyer! It's the Moisture Monster . . . warping floors and woodwork, rotting clothing, rusting appliances, tools, electric motors, the furnace, etc. Learn how to stop dampness in your basement with an Oasis Dehumidifier. Removes up to 3 gallons of moisture from the air every 24 hours! Insures year-round protection throughout your entire house. Send now for copy of free booklet that tells how to keep damp areas dry and comfortable!

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Mail Coupon TODAY! Get your FREE copy of "How To Stop Moisture Damage" . . . tells how to keep basements dry and pleasant!

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Send me free book "How To Stop Moisture Damage!"

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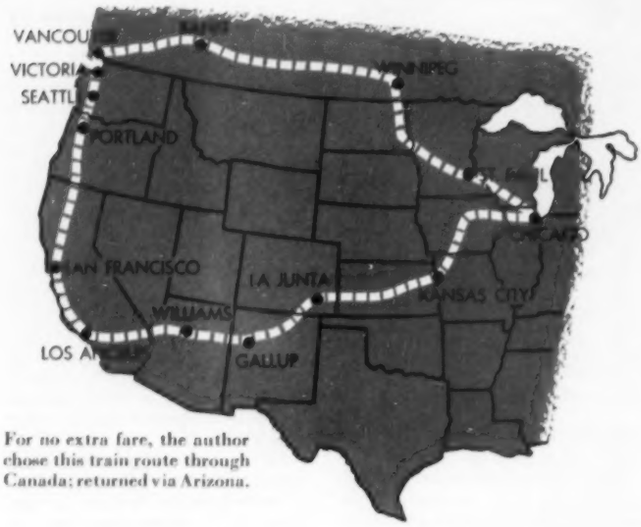
Big news in vacation travel

Begins on page 64



For no extra fare, the author chose this train route through Canada; returned via Arizona.

comfortably in reclining seats, enjoying a picture-window view of a beautiful, ever-changing panorama of scenic beauty, with your favorite recorded music.

If your preference is for delicious, king-size meals, served at regular hours and reasonable prices, they are yours in the new split-level or dome dining cars.

There's a big difference between those ancient, spine-jolting steam locomotives and the new stainless-steel, Diesel-electric equipment which provides today's luxury service from coast to coast in 60 hours. The railroads have made comparable strides in other ways, too. Their Family Travel Plan, where Dad buys a round-trip ticket for himself, pays the one-way fare for Mother and the kids over 12, and half the one-way fare for those between 5 and 11, means extra money in your pocket. There's also a "travel now, pay later" arrangement that lets you utilize a rail credit card in purchasing railroad and Pullman tickets, meals, and refreshments on trains. Tickets can be issued to include stopovers at points en route (no extra charge), and there are frequently free side trips available to you—like those from Los Angeles to San Diego, Cheyenne to Denver and Colorado Springs, and from Las Vegas to Hoover Dam—just for the asking.

Your car will be waiting

Will you need an automobile when you arrive at your destination? Then save the cost of cab fare by arranging to be met at the station with a new drive-it-yourself car. Rates are low, and you'll have your choice of just about any make of sedan, convertible, or station wagon. Your new-car rental agent will provide maps and guide folders to points of interest in his locality. A word to the agent who issues your railroad tickets will get you a certificate entitling you to a five-percent cash discount on the cost of your rented car. This kind of package deal is very popular.

Traveling by train can even extend your family's vacation beyond its normal limits. The Family Travel Plan allows Dad to return home ahead of the rest of the family if necessary, while Mother and the children prolong the return portion of their journey, or visit friends or relatives en route.

The old adage that "time is money" applies as well today as it did a century ago, and you can utilize not only your money but also your time to better advantage

[*Turn to page 196*

Other suggested vacation travel routes by rail:

Chicago-Utah, via Butte, Gallup.

Chicago-Texas, via New Orleans.

Chicago-Miami, via New York City.

Chicago-New York, New England.

GENERAL ELECTRIC'S BUILT-IN SERVANTS

bring you Whole-House Air Conditioning and Dream House Living

(for as little as $20 a month!)

Fabulous? Yes. The Built-In Servants* make you master of a "climate" that nature can't duplicate. Your happy world is free of heat, humidity, dust, noise. Every moment of your home life—eating, sleeping, entertaining—is ever so much pleasanter. And remember, this is air conditioning you enjoy in *every room*—no half-way compromise. (Free booklet gives all the exciting facts.)

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As developed by General Electric engineers, this central system brings you *year 'round* benefits in heating and cooling. Yours for as little as $20 a month, when system is used with your present warm air furnace. Choice of easy financing plans through General Electric Credit Corporation or FHA loan through your local bank. General Electric Home Heating and Cooling Department, Tyler, Texas.

MagicMaid

"I cleanse the air... electrostatically."

"Air-borne pollen, dust and particles that pass through less efficient filters can't get by me. I make life pleasant for allergy sufferers—and easy for housekeepers."

HouseMan

"I circulate air... for healthful comfort."

"I gently distribute air at ideal temperature to every corner of every room. I prevent annoying, chilling drafts and protect those who catch cold easily."

WeatherMaid

"I adjust temperature ...automatically."

"The moment the outdoor temperature changes I flash a signal that adjusts your indoor controls to assure you constant comfort summer and winter. It's never too hot, never too cold."

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N-2

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Please send me FREE illustrated booklet:
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I rent ☐ I own my own home ☐ I am building soon ☐
I am moving into an existing house soon ☐
My heating unit is ☐ years old.
I have forced warm air ☐ Hot water or steam ☐ Other ☐

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

What do you know about the geodesic dome?

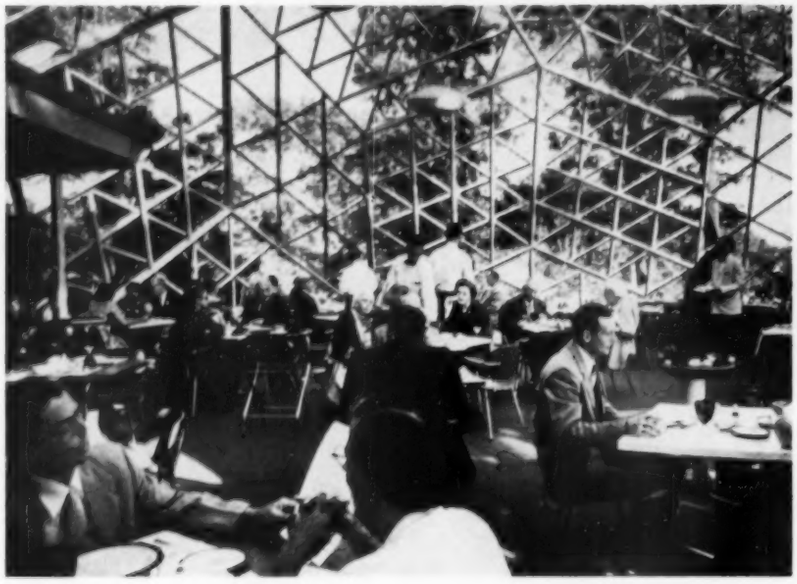
Begins on page 72

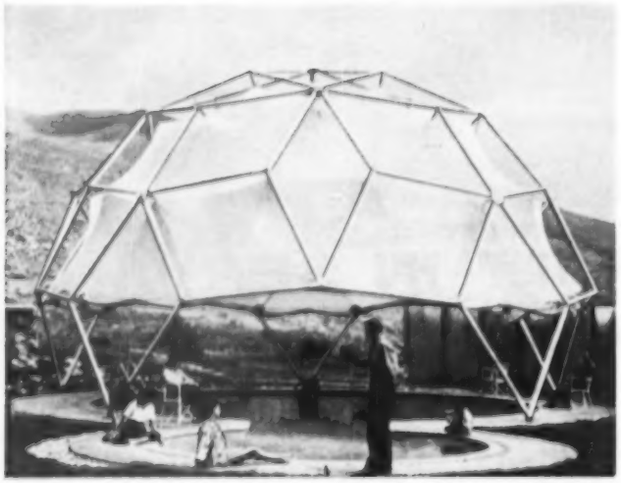
Woods Hole, Massachusetts—a dome restaurant with unhindered view

Above and at right, restaurant in the round was one of first commercial applications of Fuller's geodesic building principles.

Lacy network of dome is made up of 1x8 and 2x3 wood struts. Here, structure is covered completely with transparent plastic.

Struck by Hurricane Carol in 1954, the only damage to the dome was a few punctures in the skin. From distance, dome is so transparent it almost disappears from view.





Dome adapts readily to hundreds of uses. Here, it's bathing cap for backyard pool in Aspen, Colorado. Magnesium struts of same length form this 5/8 sphere. (Most of those shown are half spheres or less.) Plastic skin, stretched inside and strapped to joints of struts, rolls up and down.

Students at Black Mountain College, North Carolina, show off strength, lightness of 50-pound, aircraft-cable dome.

Cables poured into Washington from the diplomatic corps in Kabul . . . "unquestionably the most dramatic structure the United States has ever displayed in Southeast Asia."

Such spontaneous acceptance of the geodesic dome has become a daily occurence in the life of the man responsible for it all. To stocky, mild-mannered Bucky Fuller, native son of old New England, these excited reactions must be just the results he envisioned coming when, 30 years ago, he began his personal search for a better kind of structure. This adventure—and to Fuller it's been just that—has continued without interruption up to today; its breadth and scope overshadowed only by the systematic way he has probed, shuffled, and reshuffled the physical sciences to arrive at his present thinking.

What makes Fuller's geodesic dome important?

Immediately, you should know:

(1) It is industrially unique, capable of mass production at a rate, for some models, of as many as 30,000 to 40,000 domes a day!

(2) It is so structurally simple (though the offspring of a highly complex mathematics) that a few hours of plan-study are about all you'd need to assemble one yourself.

(3) Its major components—whether wood, metal, or plastic—are always feather light, thus easier to handle. Parts are standardized, could be wrapped in packages, ordered over a dealer's counter.

(4) It is strong. One dome, designed for the United States Air Force, has withstood two years of icy, 180-mile-an-hour wind blasts at the top of Mount Washington, New Hampshire. Another, used as a restaurant at Woods Hole, Massachusetts, rode out Hurricane Carol with no more damage than broken "windows"!

(5) There are no structural limitations to size—or use. Diameters of 100 feet, 400 feet, 700 feet, even a half mile—Fuller has the mathematics for them all. With such "weather fences" possible, *complete* control of climate for the first time is now within our reach. [*Turn to page 198*

'57 PHILCO-BENDIX DUOMATIC

Here is a complete home laundry in a single unit! Just toss soiled clothes (or that batch of diapers) into the Philco-Bendix Duomatic washer-dryer combination. Set the simple dials. When you come back, you'll find them *washed* and *dried* . . . ready to wear, fold or put away!

This "miracle" machine soaks, washes, dries, *and sanitizes* in one continuous operation. Garments come out sweet-smelling, practically germ-free! The Duomatic is completely dependable. Completely safe for all fabrics, including the new synthetics. And you can use it as a separate washer or dryer any time you want.

Don't buy *any* home-laundry appliances until you've heard the whole story of the Philco-Bendix Duomatic. It's a wonderful story. For twice as many women have bought Duomatics as all other washer-dryer combinations *added together!*

Available in choice of colors: white, pink, yellow and green, gas and electric models.

COMMENDED BY PARENTS MAGAZINE

Philco-Bendix Home Laundry Appliances are brought to you by the Philco Corporation.

PHILCO Bendix PHILCO CORPORATION

LOOK AHEAD . . . *and you'll choose* PHILCO.

Big news in rail vacation travel

Continued from page 192

traveling by rail. Even while you sleep you're being speeded toward your destination, and the comfortable accommodations of modern railroad coaches and Pullman cars make sleeping aboard the train an ideal way to save money on hotel bills. Best of all, you'll arrive at your destination relaxed, unwrinkled, and ready to get on with the fun you've planned—with a car waiting there if you wish. And traveling by train is itself an exciting, unique experience for the entire family.

For your children there are new horizons to be unfolded—new lessons to be absorbed in the fields of commerce, history, and geography. There are new thrills to be experienced from bedding down in a sleeping-car berth or new reclining chair and watching the speeding lights of the countryside flash by in the night. You will long remember starlit evenings spent high in a dome car, watching the automatic block signals change colors and the locomotive's headlights dim as your own speeding train approaches others along the line.

If vacation funds are limited, travel by coach or chair car is clean, comfortable, and most economical. Coffee bars and hamburger grills aboard many trains provide good, wholesome food at budget prices. On the other hand, additional comfort, privacy and convenience are afforded by first-class travel. This costs roughly one-third more, plus sleeping-car space charges depending upon the type of accommodations you select. For families traveling with children, either a compartment or a drawing room has numerous advantages. If your party consists of only two persons, a bedroom offers greater convenience and costs only 10 percent more than two standard lower berths. Dining and dome cars are accessible equally to both coach and Pullman passengers, although club cars and parlor cars which are carried at the rear of most trains are generally reserved for holders of first-class tickets.

Take the route of your choice

But let's be specific. Suppose, for instance, that you live somewhere east of Chicago. Dad has always wanted to see the Candian Rockies and the Pacific Northwest. Mother would prefer to visit the Grand Canyon, Zion, and Bryce Canyon National Parks, while for the children, the Pacific Ocean and Disneyland are usually the prime objectives.

By selecting your route carefully, discussing it in detail with your railway or travel agent, and arranging stopovers wherever you wish, you'll find that you can combine all these or a host of other areas into one vacation. What's more, your fare will be almost the same as though you traveled directly from your home, via Chicago, to the West Coast and return over the shortest possible route!

To investigate this king-size travel bargain, *Better Homes & Gardens* editors sent the author on a 6,000 mile exploratory trip by train and rental car across the United States and Canada. During this journey he rode 11 of the finest passenger trains of 8 different railroads. Originating at Chicago, the itinerary included stopovers at Winnipeg, Banff National Park, Vancouver, and Victoria in Canada; Seattle, Portland, San Francisco, Los Angeles, San Diego, Las Vegas, Bryce Canyon, Zion, and Grand Canyon National Parks in the U. S. A. It could as easily have included other national parks or points of interest in both Western Canada and the United States simply by adding alternate routes or scheduling additional stopovers. That portion of the journey from Vancouver to Victoria, B. C., and Seattle, Washington, was by ocean-going steamship—at no additional charge.

Or, if the Eastern States beckon, identical family-plan savings on the eastern railroads will enable you to enjoy a free side trip to Niagara Falls, plus additional stopovers at New York City, Philadelphia, and Washington, D. C., all for the same fare you would pay to travel directly to New York, and return. And, if you're a dyed-in-the-wool rail fan, the Baltimore and Ohio Railroad's museum of historic equipment at Baltimore, Maryland, is well worth a stopover in that city.

For the purpose of introducing you to a typical family vacation by rail, here is a detailed description of the itinerary from Chicago, across western Canada, and down the Pacific Coast as far as Los Angeles. From this point on, since planning your own vacation is half the fun, we'll make just a few suggestions and let you arrange the return portion of your journey along whatever routes appeal most to you.

CHICAGO: At 1 p.m., you will board the Milwaukee Road's "Afternoon Hiawatha" at the Union Station. You'll see lake-front industrial activity when the train reaches Milwaukee, and Wisconsin lakes and dairy farms. But you'll also want to spend a few hours before departure time visiting Chicago's better-known tourist spots—such as the Merchandise

Want to cook better than Jones?

With this book...you can do it!

You know Jones . . . he's the fellow we're all keeping up with.

You've attended his cookouts . . . you've envied his equipment . . . you've had to admit his steaks and salads won a lot of compliments. *But now YOU can do better than Jones!*

For the Editors of *Better Homes & Gardens* have put into their BARBECUE BOOK new methods and recipes to make you a "blue-ribbon" charcoal chef.

And you'll find it *fun* to outcook your neighbor. *Better Homes & Gardens* BARBECUE BOOK makes it unexpectedly *easy* to become an expert.

You'll find it's no trick at all to follow directions as you plan meals, purchase and prepare meats, toss a salad, turn out tasty, hot rolls. You'll quickly add to your culinary accomplishments the newest desserts *and* beverages *and* fancy appetizers.

This book is a complete guide to latest barbecue equipment, too. You'll soon master the mysteries of rotisseries, charcoal or electric grills, special knives, carving boards, skewers, cooking thermometers.

Why, any day now you'll just flip the pages of your *Better Homes & Gardens* BARBECUE BOOK . . . pick out some of the 250 tested, can't-fail recipes . . . and proceed with the greatest of ease to show Neighbor Jones how a *real* charcoal chef does it.

$2.50 • TWO EDITIONS • $1.25

Here are 162 pages . . . over 70 on meats alone . . . step-by-step directions . . . photographs or color pictures on almost every page. Priced at only $2.50 wherever books are sold. To order postpaid, send check or money order to *Better Homes & Gardens*, 5806 Meredith Building, Des Moines 3, Iowa. Or pay only $1.25 for the paper-bound edition at almost any newsstand. (Mr. Jones, *you* can buy a copy, too!)

Mart, world's second largest office building, and the Museum of Science and Industry, which features underground tours of an operating coal mine and a visit aboard a captured Nazi submarine.

Other attractions:

Grant Park	Brookfield Zoo
Art Institute	Shedd Aquarium
Planetarium	Field Museum

ST. PAUL: After crossing the Mississippi River with a spectacular view of towering cliffs and river navigation locks, you'll arrive at Minnesota state capital. On display in Union Station lobby is the first locomotive to operate in Minnesota, an old wood-burner brought into the area by steamboat in 1862. Business district is six blocks away. Board Great Northern Railway's "Winnipeg Limited," departing at 8:55 p.m.

WINNIPEG: Canadian immigration and customs officials begin check of passengers at 7 a.m., little more than an hour before you arrive in capital of Manitoba. Spend the day here before boarding Canadian Pacific Train No. 1, "The Canadian," departing at 9:25 p.m.

Western trip from Winnipeg will take you through fertile wheat producing region, into Saskatchewan and Province of Alberta.

Other attractions:

Assiniboine Park	Parliament Building
Lower Fort Garry	Hudson Bay Company Store

BANFF: You'll arrive at 3:10 p.m. after passing through the cities of Medicine Hat and Calgary. Over 2,500 square miles of spectacular mountains and glaciers in Banff National Park area. Stopover accommodations at Banff Springs Hotel, as well as smaller hotels and private homes. Scenic highway leads 35 miles along Bow River to beautiful Lake Louise at the foot of Victoria Glacier. En route you'll likely see moose, elk, and bear.

Trains leaving Banff: Canadian Pacific No. 7, "The Dominion," departing at 10:50 a.m., or No. 1, departing at 3:15 p.m. In traveling remaining 560 miles to Vancouver, you'll cross Canadian Rockies, the Selkirk, and Cascade Ranges which together constitute finest mountain scenery in North America.

Other attractions:

Wild Animal Paddocks	Upper Hot Springs
Lunton Museum	Banff Museum
Mount Norquay Chairlift	Cascade Rock Gardens
Spiral Tunnels	Stoney Creek Bridge
Fraser Canyon	Connaught Tunnel
Mount MacDonald	

VANCOUVER: Canada's Pacific Coast gateway to the Orient. You'll have almost a full day here to sight-see and shop for souvenirs. Children will enjoy a visit to a waterfront salmon cannery. At Pier C, arrange as early as possible for overnight stateroom accommodations aboard *S. S. Princess Joan* or *Princess Elizabeth*, departing at 10:59 p.m.

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"Lift" off old paint, rub up new finish faster with steel wool. For the highest quality, handiest size, get **SUPREME STEEL WOOL BALLS**

A Brillo® Product

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"Root Eliminator" KEEPS Sewers & Septic Tanks OPEN

Easy-to-use chemical prevents and frees stoppage of sewers by roots. Just pour half package of R-E in your toilet each six months.

Average year's supply only $3.95

See your Plumbing or Hardware dealer or mail your order to us. Sent promptly postpaid!

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MONEY BACK GUARANTEE

Other attractions:

Stanley Park	Marine Drive
Lion's Gate Bridge	British Properties

VICTORIA: Your ship docks at 6 a.m. but you can sleep until 7 a.m. You can go ashore until 5 p.m., when the ship leaves on a four-hour sunset cruise through Puget Sound, to Seattle. In Victoria, you'll find Parliament Buildings are within a stone's throw of the docks. Or you can take a scenic drive north along Malahat Mountain Road and across Saanich Inlet, by ferry, to Brentwood and fabulous Butchart Gardens. Don't miss Thunderbird Park (Indian totem-pole carvers at work).

Other attractions:

Thunderbird Park	Helmcken House
Dominion Astrophysical Observatory	Crystal Gardens
Oak Bay	Beacon Hill Park
	Marine Drive
	Uplands

SEATTLE: Ship docks at 9 p.m., and the following day will enable you to see much of the city and the surrounding mountains. There's fine scenic view from Chinese Room on 35th floor of Smith Tower. In early August, Seattle Sea Fair features aquacades and musical concerts. If time permits, visit a plywood factory, where huge logs are peeled and laminated. Lake Washington area has facilities for swimming, boating, and picnicking. Many trains operate daily between Seattle and Portland, some of which continue on to San Francisco if your schedule doesn't permit a stopover in Portland.

Other attractions:

Ship Canal	Fisherman's Terminal
Green Lake	Pontoon Bridge

PORTLAND: Take the 174-mile Scenic Loop Drive via U. S. 26 to glacier-topped Mount Hood (11,245 feet), north on State 35 to Hood River, and west through Columbia River Gorge past Bonneville Dam, Multnomah, and Bridal Veil Falls, back to Portland. For the trip to San Francisco, board Southern Pacific Train No. 11, "The Cascade," leaving at 4:45 p.m.

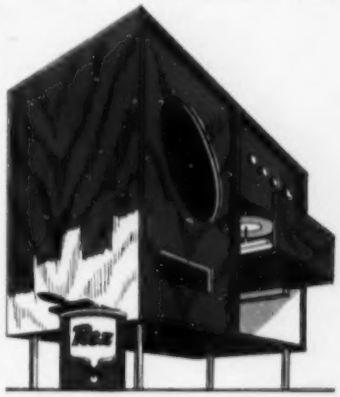
Other attractions:

Sunken Rose Garden	International Rose Test Gardens
Lambert Gardens	World's Largest Log Cabin

SAN FRANCISCO: Arrive at the Ferry Building (by ferry) from Oakland Pier at 9:15 a.m. For fascinating introduction to city, take hour-long harbor cruise leaving from Pier 43, near Fisherman's Wharf. Powell Street at Market is turnaround point for famous old cable cars. For souvenir hunting and dining, explore 16-square-block Chinatown, largest outside Orient. Latin Quarter, around Telegraph Hill has excellent eating places. Mission Dolores, founded 1776, is oldest building still standing in this city. Southern Pacific Train No. 98, the "Coast Daylight," leaves at 7:15 a.m. for Los Angeles. [*Turn to page 221*

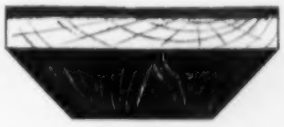
Transparent Color! —the new look in unfinished furniture

Now, *without hiding the natural grain beauty* of wood, you can finish unfinished furniture, built-ins, wall paneling and room dividers to blend with the color scheme of your curtains, rugs or walls.



IT'S EASY to achieve this "modern mood in wood" with REZ, the unique wood finish that colors and protects without masking the grain.

Not a paint—not a stain



NO BRUSH MARKS, bubbles or messy sagging. A special resin-base formula carries color *into* the wood. Result: Instead of hiding the wood with color, REZ *tones* the wood for a rich, fine furniture look.

13 COLORS — hundreds of color effects. REZ color tones can be used separately, or intermixed to create many more colors. REZ color tones beautify any kind of wood — and every wood lends its *own* touch of color and texture to the transparent colors of REZ. (Above, Blue Spruce REZ on pine.)

See how all 13 REZ color tones look on wood. Send for *free* color card and booklet to REZ, P. O. Drawer 3, Dept. E, St. Louis, Mo., or see your local REZ dealer's display of REZ colors on wood.

Rez

the natural wood finish for exteriors and interiors, is a product of MONSANTO

MONSANTO

Where Creative Chemistry Works Wonders for You

Rez: A trademark of Monsanto Chemical Co.

The geodesic dome

Continued from page 194

(6) Last, and *most* important in the long view, the geodesic principle may prove to be the least expensive system of building discovered yet!

How did Fuller get started on all of this? It began back in the early 20's, when, fresh from apprenticeships in a cotton mill, packing plant, and the United States Navy via the Naval Academy, Fuller formulated theories which now have evolved into his philosophy of universal design. Today, he calls it "comprehensive design science"—and thus the term he applies to himself—"comprehensive designer."

By calculating future needs, finding solutions through scientific foresight *before* they really become problems, Fuller preplans for big advantages—right now, and in the future. In Fuller's vision of advanced technology and industrial automation, the 30-hour week and a helicopter for every household are given a meaning that takes them out of fantasy and fiction.

Fuller sees that we've made [*Turn to page 201*

Ordinary ¼-inch plywood sheets (135 of them) are hauled to the site in a single truck—with room to spare. Entire dome is made up of these identical, overlapping panels, bolted together to take a curve. The plywood sheets with plasticized surface were predrilled for bolt fasteners. That's all the material and technique needed in this most recent, experimental dome design.

The shell spans 39 feet and rises to a crown 19½ feet high. Yet, there are no "ribs," no beams, no interior bracing needed for added support. Thin sheets are both framing and skin. When bolted, they become self supporting. And in no area of the structure is the dome "wall" more than ½-inch thick.

Openings within the pattern are filled with clear plastic. Joints of lapped sheets are sealed with plastic-coated tape. Dome is mounted on a 4-inch concrete slab, 39 feet across.

Latest experiment: flat plywood sheets become a dome!

Photographs: Stanley

The Bel Air Convertible with Body by Fisher (at left). The Chevrolet Corvette (at right).

sweet

(just look!)

smooth

(ah, that Turboglide!)

sassy

(just drive it!)

This is the car that's fresher and friskier from its own special look to its new Ramjet fuel injection!

Those words—sweet, smooth and sassy—seem to fit this new Chevy right down to its tubeless tires. In the first place, it *looks* the part. It has a crisp, alert appearance—as trim and functional as an arrow. You can tell that the styling isn't just going along for the ride. It's right in keeping with Chevrolet's own special fresh and frisky ways.

And this is one car that looks as good close up as it does across the street. It's built the way you've come to expect a Chevrolet to be built. Everything in it fits beautifully—including you!

But a Chevy isn't just something that's nice to look at. Far from it. This beauty was meant for *driving*—and it *knows* it! Give a Chevrolet a gentle hint with your toe, and it responds with spunk and spirit and sureness!

You can pick your power from the widest choice of engines in Chevy's field—from the popular Chevy 6 up to V8's with revolutionary Ramjet fuel injection.* This Chevy advance does away with the carburetor . . . brings you instant responsiveness and more efficient use of fuel. It's the greatest forward step in engines since overhead valves!

When you put Chevrolet's new Turboglide* drive in the picture, you're really living! This, you know, is the first and only triple-turbine transmission.

Get your hands on the sweetest handling car of them all. It's as close by as your nearest Chevrolet dealer's. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

**Optional at extra cost.*

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'57 CHEVROLET

You bet there's a

difference in drills...

Black & Decker U-3 Drill

"pro" quality in a home power unit

Insist on Black & Decker's **U-3 ¼" drill**, packs more power to do more jobs

Look for these quality features

—don't settle for less!

- **Famous B&D-built motor** has 45% more power, 100% greater torque (turning force). Ideal for driving attachments.
- **Slim, trim handle** with trigger switch is perfectly shaped to fit hand for easier operation. Bright, highly polished housing stays new looking.
- **3-wire cord** has industrial-type ground wire for extra safety.
- **High-quality helical gears** give quieter, smoother flow of power.
- **Engineered and built by** the people who have made Black & Decker the best known name in portable electric tools for industry.
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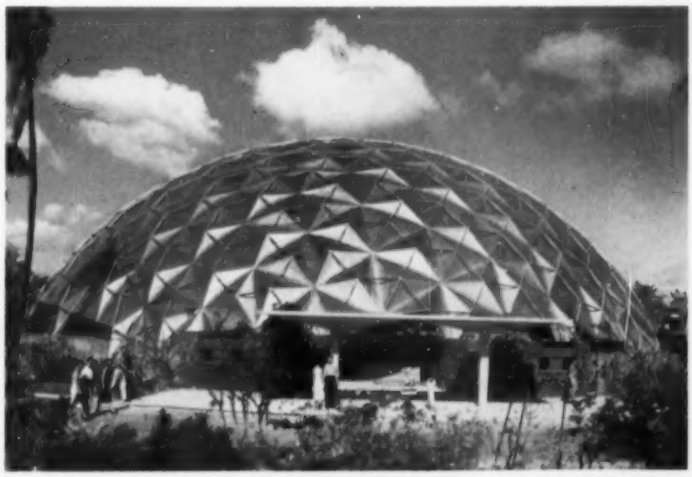
What do you know about the

History's first flying hangar! This magnesium dome is part of new look in Marine aviation. Covered with nylon, it holds three planes.



Aluminum auditorium in Hawaii seats over 2,000, was raised on a mast in two days. Stressed-skin structure spans 145 feet without interior columns. Skin itself is of pre-cast diamond panels.

geodesic dome?

Continued from page 198

headway with comprehensive design in medicine (he likes to cite Dr. Jonas Salk's perfecting polio vaccine), transportation, and communications. Sikorsky and Douglas in aircraft, Henry Ford in automobile, Bell with the telephone—each in his field has made a "comprehensive" contribution to a better life.

Fuller's all-out strategy to overcome what he terms "today's No. 1 generalized problem—shelter" is implicit in the development of the geodesic dome: to harness and channel industrial power in such a way to bring about inexpensive, mass-produceable structures deliverable at a moment's notice anywhere on the face of the earth.

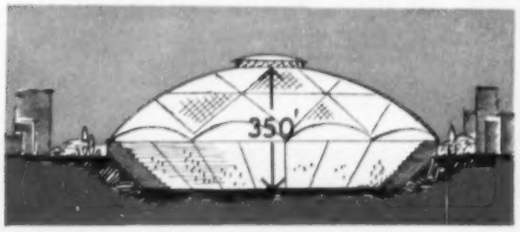
No small order, but then comprehensive design, Fuller answers, is no small science. (Air-deliverable structures, preassembled at a factory-fabricating point, were central in Fuller's earliest ideas. Today, in Marine Corps aviation, helicopters are flying dome hangars, personnel shelters, repair shops, and so on, as part of a new approach to quick, military movement and advance air-arm mobility.)

Interwoven as an essential element of forward-looking design is another concept Fuller has been demonstrating for the past 30 years. That's his Dymaxion principle, an idea for getting "more and more of everything—for everybody—from less and less resources." Witness the geodesic dome. In it, he has achieved unbelievable slenderness and lightness using a *minimum* of materials.

In effect, Fuller says, "the pound is the yardstick by which success and failure are measured." He translates the rubber ball shape into the dome structure because it allows maximum strength for each pound of material used, thus permitting reduction in weight—and waste.

The program of development is now 11 years old. It began with lectures at leading universities (where Fuller continues as visiting critic in design and engineering) and evolved into prototyping domes with the aid of architectural students and two Fuller-directed design groups.

As his ideas have grown, manufacturers have come along to offer assistance—new materials, cheaper and in greater abundance, easier methods of producing them. The result of this mass pooling of academic energy, technical assistance, and the designer's own talent [*Turn to page 220*



Baseball parks to swimming pools, inherent strength and economy of "clear span" geodesic structures suit them to a wide variety of uses. Here are just a few of the present and planned applications of domes with approximate sizes:
Diameter 15 feet to 100 feet. Back-yard greenhouses, vacation houses, tool storage, play shelters, swimming pool covers, ski lodge, farm buildings (machine shops, animal and implement shelter, grain storage), club houses, schools, churches, community centers, airplane hangars, fair pavilions, restaurants, clinics, institutional buildings.
Diameter 100 feet to 400 feet. Industrial plants, auditoriums, warehouses, shopping centers, commercial structures.
Diameter 400 feet to 750 feet. Sports arenas, baseball and football stadiums. Proposed sports centers (see above) 350 feet high could enclose a 30-story skyscraper!

B.F.Goodrich

Easy! And will be for ten years

To make yard work easy and save money at the same time, figure your hose cost *by the year!* Koroseal is the *only* hose of its type that has been sold in big quantities for more than ten years.

Try asking your dealer if he sold some of that first Koroseal hose ten or eleven years ago. Ask if he doesn't know of some that has been in use ten full years.

Koroseal is so flexible, easy to handle and a third lighter than ordinary rubber hose. Running your car over it won't hurt it. You don't need to drain it and put it away. Leave it out all year if you want to. Its brilliant color may dim a bit in time but it will stay as strong and flexible as ever.

Women like it so much they often take over the entire job of lawn sprinkling. (After that, the men like it more than ever.)

Koroseal *Imperial* is only $7.95 for 50 feet. Koroseal *King Size* is larger, gives faster flow of water and more sprinkler coverage, still is a third lighter than rubber, and only $9.95 for 50 feet. Koroseal *Extralite* and Koroseal *Crystal* are smaller, carry less water, but are only $5.95 for 50 feet.

Ask your dealer about Koroseal hose. Make lawn work easy! Save money by figuring your hose cost by the year. It's less than a dollar a year for 50 feet! B.F.Goodrich Industrial Products Co., Akron, Ohio.

Koroseal—T.M. Reg. U.S. Pat. Off.

Koroseal Garden Hose BY B.F.Goodrich

How to be happier with your next

power lawnmower...

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COMPARE their mechanical and safety features, considering both quality and price . . .

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be sure it's equipped with a

LAUSON ENGINE

LAUSON ENGINE DIVISION
Tecumseh Products Company
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"Manufactured since 1896"

Don't let redspiders damage your evergreens

Even evergreens are not immune to the tiny redspider-mites that attack other garden plants. You'll see the destructive results when needles begin to turn from a normal bright to a dull and grayish green. And if you look closely, you can spot the tiny webs they weave between the needles.

Catch them early. For redspiders, later is too late! After a good start, their work is evident at 20 feet. The tree turns brown and mottled. Needles may even begin to drop. Redspider-mites take their toll by stopping the growth of the plants that they attack.

What are they? Actually, redspiders are not true spiders at all, but tiny mites about 1/60 inch long. They pierce the needles from the underside and suck out the plant juices.

Generally most active in hot, dry weather, these undesirables are also found under quite the opposite conditions—when the air is still and humid.

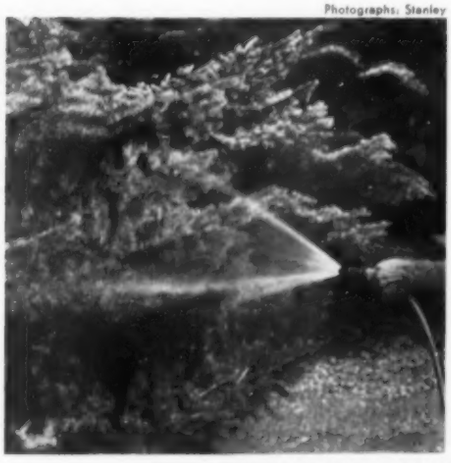
Plants growing in protected places are most apt to be attacked. Those in the open—where air circulates—are less susceptible. So keep a sharp lookout for telltale signs on all evergreens and act immediately.

Redspiders are an evergreen's most unwelcome boarders. Here is the way to spot them before damage is done

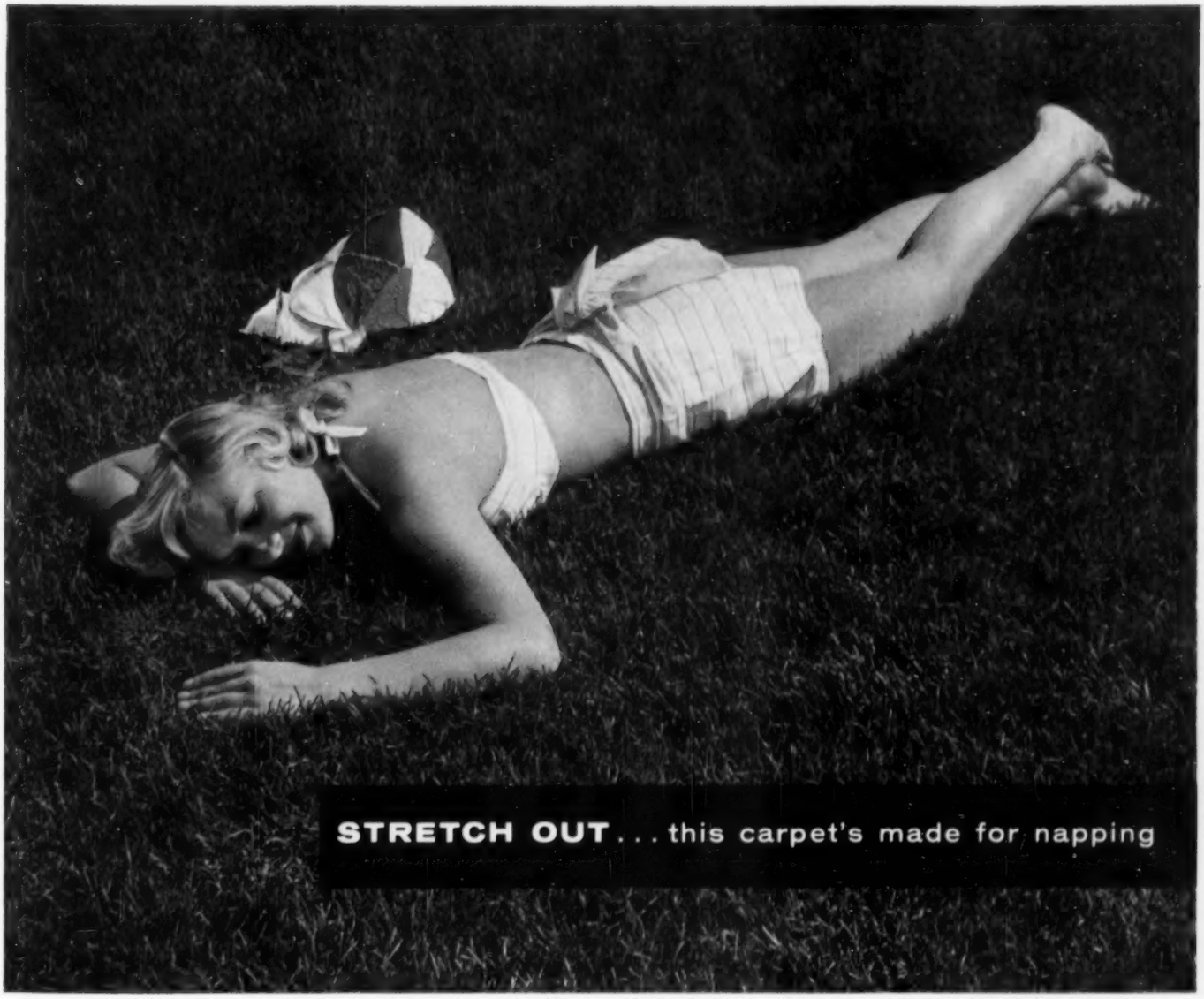
Make this redspider test. Hold a white sheet of paper beneath a branch. Strike it sharply. If mites are present, you'll soon find tiny specks moving on the paper. These will turn to brownish smears when you rub them.

Control redspider-mites with chemicals. Weekly spraying with wettable sulfur or sulfur dust, malathion or other good miticides will help rid evergreens of the pests. For best results, use both a spreader and sticker in the solution.

Photographs: Stanley



Control the mites with water spray. You can also oust mites by dousing foliage with a strong, needlelike spray of water from hose nozzle. Do this thoroughly every evening for five or six days. It should discourage red mites.



A real beauty . . . this lawn kept green with Golden Vigoro Complete Lawn Food

Wherever you live, **GOLDEN VIGORO** Complete Lawn Food is made right for the soils and growing conditions in your area

Golden Vigoro Complete Lawn Food helps create the most luxurious carpeting ever grown. Yards and yards of it! More than 3 billion square feet of lawns were fed with Golden Vigoro last season.

And not a blade of grass burned! Golden Vigoro won't burn grass when used in recommended amounts. It's safe to use on grass that's green, grass that's wet or even on new grass. This is the safest complete lawn food ever made. The greatest aid in growing the kind of grass you want, too. In the first place, Golden Vigoro provides every nutrient grass needs from the soil. What's more, this balanced nourishment is supplied slowly and steadily . . . continuous nourishment for months after Golden Vigoro is applied. That helps grass green-up faster and makes for the vigorous, deep-rooted growth that gives lawns lasting beauty.

Apply 1 to 3 lbs. per 100 sq. feet. No raking or watering-in.

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Vigoro Complete Plant Food—balanced nourishment for flowers, vegetables, trees.

Instant Vigoro Complete Water-Soluble Plant Food—Ideal for house plants, transplanting and supplemental feedings of lawns, flowers, vegetables, fruit, shrubs. Feeds through leaves *and* roots.

New Vigoro Complete Rose Food—feeds roses like Golden Vigoro feeds lawns; provides a steady and uniform supply of balanced nutrients roses need.

won't burn grass

lasts far longer

Golden Vigoro is made in modern plants from coast to coast and in Canada

Vigoro is a registered trade-mark of Swift & Company

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Most effective formula ever developed to protect your roses from every known rose insect and fungus disease*. Simply dust with a light, uniform coating. Protected plants look clean and attractive. End-o-Pest Rose Dust is available in handy 10-ounce dust guns, refills and the 20-ounce canister.

*Cures or preventative measures for control of virus diseases are not claimed as no cure is possible today.

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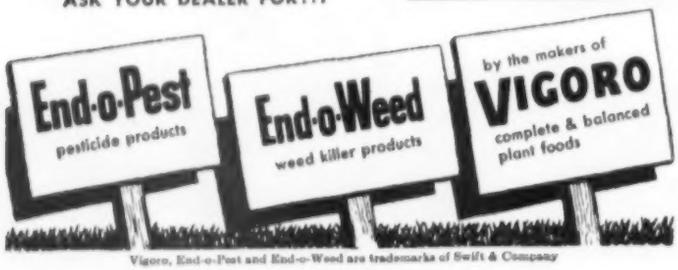

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YOUR PET AND MINE®

When a queen has

Preparations are simple

When a "queen," as a mother cat is called, is expecting a litter of young, a "delivery room" can be made from an open cardboard box. It should be at least 18 inches square, and filled with absorbent, disposable bedding. The box should be kept in a secluded closet or dark corner, away from household traffic.

Kittens catch on quickly

When the kittens are three weeks old, they can see and walk well enough to wander away from the mother in a search for food. Warm milk in a shallow dish will satisfy their quest. At first kittens are awkward, have trouble drinking, and may even fall into the dish. But they become skillful in a few days.

a blessed event

By Dr. Wayne H. Riser

Mother manages very nicely

The mother cat prefers to keep her kittens in the box, or a similar protected spot, where she can wash and nurse them. Care of the kittens, in the beginning, is a full-time job and she seldom leaves them unattended. However, if danger threatens or she's disturbed the mother will carry kittens to a new spot.

Photographs: Harriet Arnold

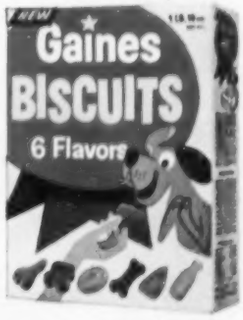
On their own in six weeks

Kittens can leave mother cat for new homes when they're six weeks old. At this age, the kittens prefer four meals a day. They have mastered drinking milk from a dish and can be fed finely ground meat, milk, and vitamins. Determining sex of kittens at weaning time isn't easy; you may need expert help.

The man who's got a way with dogs... gives them new

Gaines Biscuits every time!

And no wonder! These new Gaines Biscuits have the variety dogs love—plus the nourishment dogs need . . . all in one box!



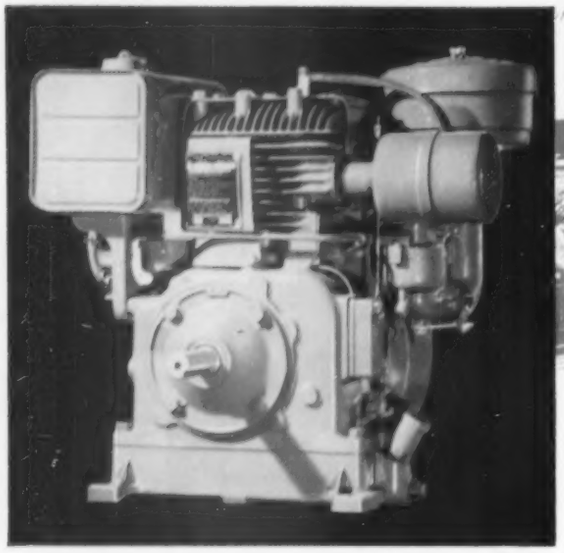
6 tasty flavors!

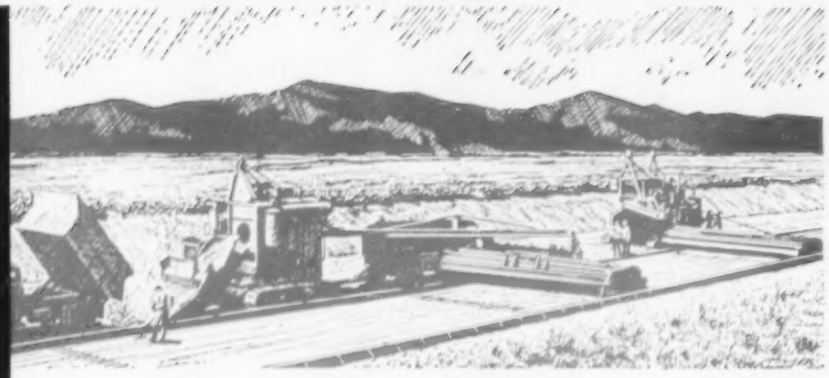
6 happy colors!

6 playful shapes!

For tail-waggin' love—give Gaines Biscuits every time!

A Product of General Foods





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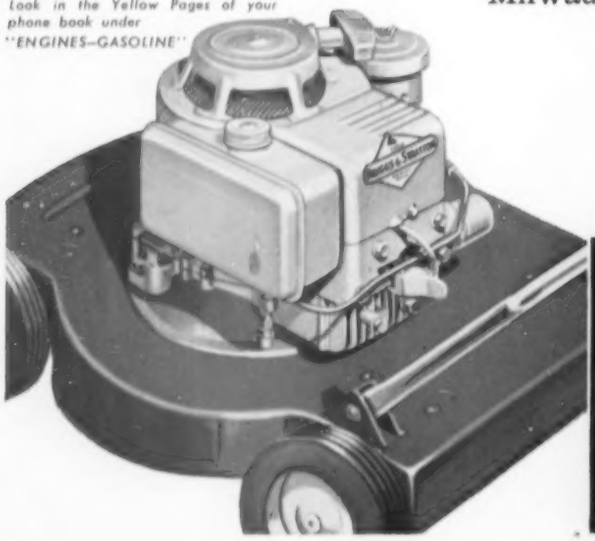


How to weed in flower beds

The easiest way to control weeds in beds is to keep them from establishing a foothold in the first place.

Pre-emergence weed killers destroy germinating seeds, while a cover of mulch kills any that manage to sprout.

You will probably have to resort to hand weeding and hoeing, however, during the course of the season. In general, the best way to weed any area—whether lawn, vegetable patch, or a small flower bed—is to work in a limited area. Clean it entirely of weeds before you move on to the next area.

This is advisable whether you attempt weed control by spraying, broadcasting, hoeing, or hand weeding.

Pre-emergence weed killers: Come in liquid and dry form, destroy all germinating seeds in the top half inch of soil. Apply liquids with sprayer, watering can, or hose attachment. Broadcast dry form.

Photographs: Stanley

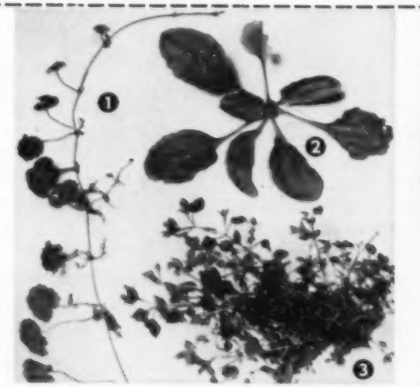
Layer of mulch: Will kill sprouting weeds by denying them light. Spread mulch around base of established plants in early spring, replenish as necessary during season. You can water plants right through mulch.

Hand pulling: Still one of the best ways to control stray weeds. Works best when soil is moist. If weeds are flowering, get after them promptly. Seeds are being formed, will soon drop. Burn pulled weeds.

Hoeing: Saves time when colonies of weeds have taken over in beds. Save yourself some effort, too, by working with a newly-sharpened hoe. Try to get weed, root and all; avoid damage to roots of ornamentals.

Cut PUSH

Cut along dotted lines



Can you name these weeds?

Ground ivy (1) is a hardy perennial creeper, plantain (2) features shiny leather-like leaves, while the common chickweed (3) bears tiny white flowers.

The dandelion (4) is easily identified in spring by its fluffy yellow flower. Spotted spurge (5) hugs the ground, and buckhorn (6) is also known as narrow-leaf plantain.

Crabgrass (7) is well-known and is widely disliked. The last two are wiry knotweed (8) and mallow (9).

How to control weeds

WEEDS ARE A PROBLEM year after year. They invade flower beds, vegetable gardens, and lawns, robbing soil of its limited supplies of water, food, growing space.

There are many ways to fight weeds. Some are as time-honored as the hoe, others as new as chemical science can make them.

These pages describe some of these weed-control methods and tell what they do best. Use them to plan your own weed campaign.

Cut PUSH

Add these pages to your GARDEN BOOK

File with Maintenance

How to get rid of weeds in the lawn

Weeds in lawns present a special problem because they grow closely among desirable grass plants. You must take care to see that weeds, not grasses, receive the full brunt of your efforts.

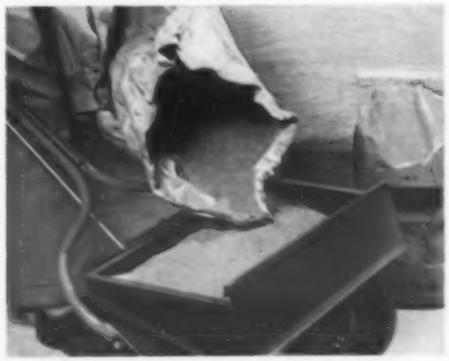
Chemical weed killers take most of the hand labor out of controlling weeds in lawns. Success depends on knowning what chemicals are available, what they do, and how to use them. This page describes application methods. Page 4 charts basic chemicals by uses.

To spray: Hold nozzle down close to weeds—keep spraying until all their leaves are wet.

Results will not be immediately apparent—repeat treatments will probably be necessary.

When spraying: Remember that the weed killers will also damage flowers. Spray on windless days, even then, shield desirable plants.

Plants absorb more chemicals on sunny days, are damaged easier.



To broadcast: Mow grass immediately before applying weed killer in dry, granular form.

Plant food spreader speeds job on badly-infested lawn. Be sure flow gauge is on right setting.

When grubbing: Get the root—or as much of it as you can. If only the top of a weed is removed, a new one will replace it quickly.

Chemical "bombs" and canes save time when treating isolated weeds.

Herbicide	Its Use	Apply	How	Suggestions
Pre-emergence				
Vapam	It temporarily sterilizes the soil—kills all germinating seeds as well as young seedlings	In the early spring as a preplanting treatment. May be used in fall, too	Wet	Keep off lawns—away from drip-line of trees, shrubs. Wait a month before planting
Calcium Cyanamid	Controls sprouting weeds in new lawn seedbeds. Used in asparagus beds, too	Early spring before seeds sprout. After asparagus harvest	Dry	Wait one month before planting, sowing, after use. Lawns: Complete renovation only
Lead Arsenate and Arsenic Trioxide Combination	Kills all dormant weed seeds in established lawns. A single application lasts all year	In spring or fall. It is effective if used these seasons only	Dry	Application is wasted if put on after weed seeds have sprouted
Direct Contact				
Di Sodium Methyl Arsenate	Kills smooth and hairy crabgrass—and other annual weeds	Spring and early summer. Repeat use as necessary	Wet or Dry	Best results if used early morning, late evening, or cloudy days
Phenyl Mercuric Acetate (PMA)	Kills both types of crabgrass found in the lawn	Soon after seedlings appear. Repeat during summer	Wet or Dry	Follow directions exactly to avoid temporary discoloration of grass
Potassium Cyanate (PC)	Kills crabgrass and other annual lawn weeds	Best in late summer, or early fall	Wet or Dry	If dusting, work in early morning or late evening
2,4-D	Kills broadleaf lawn weeds. Is sometimes used as a pre-emergence weed killer	Spring and early summer. Other applications in summer	Wet or Dry	Don't spray on hot, sunny days. Watch to see that spray doesn't drift in garden

How to know and control all these common insects:

Cabbage Looper

WORMS Cabbage looper chews cole crops. The similar *cabbage worm* hatches from eggs laid by little white butterfly. Malathion kills both. Leaf miners, caterpillars, too. Protect *all* vegetables with regular malathion sprays or dusts.

Gladiolus Thrips

THRIPS Tiny. They hide between, whiten and deform petals. Several species damage roses, many other ornamentals and vegetables. Malathion kills thrips, protects *all* flowers from *all* major pests. All leading manufacturers offer malathion insecticides.

Japanese Beetle

BEETLES Japanese beetle winters as grub under lawn, ruins ornamentals during summer. Many kinds of beetles chew up flowers, vegetables, fruits. To control all major pests—beetles, aphids, mites, mealybugs, etc., use malathion *regularly*.

Aphid

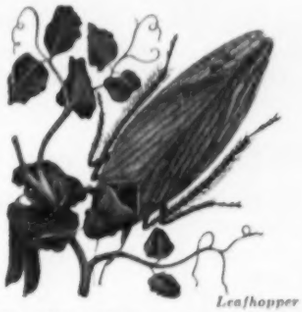
APHIDS (Plant lice) Probably the most common garden pest. They occur in many species, many colors, with and without wings. They deform buds, "cup" leaves, exude sticky "honeydew". Aphids build up fast, so use malathion promptly.

Red Spider Mite

MITES Tiny members of the spider family, they have eight legs instead of six. To find mites, look closely *under* leaves. Attack most plants, "bronze" foliage. The U.S. Dept. of Agriculture has OK'd malathion for use against *80* destructive pests.

Codling Moth

FRUIT WORMS Eggs laid by codling moth on fruits hatch into tunneling worms. Malathion protects tree and small fruits from fruit worms, scales, leaf rollers, aphids, mites. Farmers use *thousands of tons* of malathion each year.



Leafhopper

LEAFHOPPERS Many species of this pest cause yellow spots, "burned" areas on foliage and blooms. Spring away when disturbed. Attack practically everything. *Whatever* you grow, malathion solves the insect problems you're likely to encounter!

Oyster Shell Scale

SCALES Barnacle-like, scales pick spot, dig in to stay. They disfigure fruit, leaves, limbs, feed on plant juices. Various scales attack ornamentals, fruits, and shade trees. Natural armor makes control difficult—except with malathion. Spray *thoroughly*.

Mosquito

NIGHT FLYING INSECTS Authorities are spraying whole towns with malathion to eliminate mosquitoes, including DDT-resistant strains. All *you* need do is spray patio or porch, nearby lawn, bushes. Controls moths, leafhoppers, other nightfliers.

Housefly

FLIES Malathion is the most effective fly killer you can use around your home. One application *keeps killing* flies 2 to 4 weeks, including DDT-resistant strains! Spray barbecue area, patio, garbage containers—wherever flies congregate and breed.

Flea

INSECTS ON PETS Malathion in sprays or dusts kills fleas, keeps pets happy. Treat both animal and its quarters to prevent reinfestation. Use any garden-type sprayer or duster. If animal runs free, retreatment now and then may be necessary.

Silverfish

INDOOR PESTS Silverfish eats wallpaper, book bindings, laundry starch, hides in warm dark places. Paint malathion on baseboards and floor around kitchen, laundryroom, basement. Keeps killing for weeks. Controls ants, roaches, earwigs.

One insecticide protects your whole garden
. . . kills flies, mosquitoes, indoor pests, too!

MALATHION

PUTS THE KILL IN MANY BRAND NAME INSECTICIDES . . . Solves the problem of *what* to use against *which* insect. Check the label for the name MALATHION. American Cyanamid Company, 30 Rockefeller Plaza, New York 20, N. Y.

CYANAMID

LOOK FOR MALATHION ON THE LABEL OF EMULSIONS *DUST GUNS* *PLASTIC SQUEEZE BOTTLES*

plications of this multipurpose weed killer give practically 100-percent control of both crabgrass and broad-leaved weeds, such as dandelions and plantain.

Although dry weed killers are usually more expensive than liquid forms, many gardeners prefer them. They are much easier to apply, and there's no spray drift problem.

Tomato virus causes infection

If a tomato looks healthy on the outside but is brown when cut open, the answer is probably virus infection, according to Dr. John S. Boyle of Pennsylvania State College. Doctor Boyle has caused the disease experimentally by inoculating healthy fruits with juice from diseased specimens.

Prevention is the only control known so far, but destroying weeds that carry the infection will also help *curb* the disease. The virus lives over winter in such plants as horse nettle, plantain, and ragweed.

Iron essential for healthy grass

Iron is as necessary for growth of grass as it is for growth of other plants. Yet, because it is seldom troublesome, we often fail to consider it when we are looking for causes of lawn trouble.

East of the Mississippi, iron deficiencies are not common. The need for iron grows progressively greater the farther west one goes.

There's a simple test that indicates whether or not a lawn needs iron. Just toss a handful of ferrous sulfate and another of ammonium sulfate into five gallons of water, and stir it up. Apply this mixture to part of your lawn with a sprinkling can, walking at a normal pace.

If there is an iron deficiency, the treated area will respond swiftly. When the solution is applied in alternate strips, the effect is often amazing: The treated strips are so dark that the untreated areas look yellow.

Nip tops out of Brussels sprouts

Gardeners use various tricks to encourage Brussels sprouts to set heads. These include removing lower leaves, nipping out top buds, and bending the stalks.

In tests made at Bozeman, Montana, heaviest yields came with the removal of terminal bud. The other methods actually decreased production.

Soil carries grape disease

A scientist at the University of California has come up with the information that Fan-leaf—a disease of grapes—can be transmitted through infected soil.

Dr. William B. Hewitt planted healthy vines in holes from which diseased vines had been removed. Although six months had elapsed between digging out and replanting, all the vines picked up the disease.

Vines infected by Fan-leaf usually shed their flowers without pollinating, or the flower clusters dry up. Lightly infected vines may bear loose, poorly filled clusters.

To date, no chemical control is known. Steam sterilization kills the virus so that healthy vines will grow normally. If infected soil is not steamed, all vines planted in it develop Fan-leaf in about 15 months.

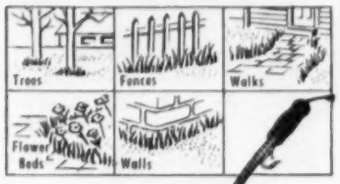
Chamois-soft and cozy yet amazingly long wearing. Vinyl-treated fabric keeps out all dirt, lets air in. Washable, too. Wear to garden, paint, clean. Men's, women's styles. 98c.

GIRL FRIDAY is the only plastic glove that keeps lovely hands cool in hot water. $1.39.

Edmont

Edmont Mfg. Co., Coshocton, Ohio

Trims the places your mower always misses!



IN A JIFFY, Seymour Smith Electric Lawn Trimmers cut untidy grass and weeds—even the toughest of them—and leave your lawn neat as a pin!

Don't let untidy patches spoil every mowing job! Seymour Smith Electric Lawn Trimmers handle it quickly and easily—no bending, no stooping, no sore knees.

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de luxe model
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Standard model
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De Luxe Model No. 700 has custom built motor—safety switch on handle—extension cord holder—auxiliary handle grip. Rolls easily on hard rubber wheels.

Your dealer has these and many other fine Seymour Smith garden tools or can get them for you. Or write us.

SEYMOUR SMITH & SON, INC.
206 Main St.
Oakville, Conn.

Quality Tools
SEYMOUR SMITH
Since 1850

A summer house

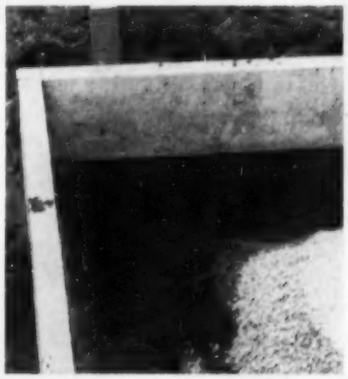
Begins on page 66

Summer house use doesn't cease at sundown. It's summer-evening center of family fun. Screen lowers from overhead beam when family watches home movies. After kids' bedtime, grownups enjoy activities without disturbing them (still near enough to avoid baby sitter).

Major screen house construction steps

Distance from the bottom of the straightedge—bridged between drain and concrete forms—and top of sand fill determines the drain pitch: ⅛ inch to one foot.

To take care of excess water that enters through screen panels, crushed concrete is placed around drain for "dry well." Same trick is used at slab perimeter.



Integral slab and grade beam construction saves time, expense over the conventional foundation-slab technique.

After concrete is placed, steel reinforcing rods are sunk into grade beam; wire reinforcing mesh is sandwiched halfway through thickness of slab to stop "cracking."

Forms are leveled on the grade; "beam" is excavated.

After it has been screened and floated, top coat of concrete dye (mixture of neat cement and cement dye) is sprinkled over concrete.

The surface is then floated again, and smooth troweled.

Between these steps, sill bolts are installed in grade beam; metal conduit for the underground wiring is placed.

More on next page

"I'm dejected, neglected and Thoisty!"

Pity the poor Zinnia. All she and her fellow flowers need is – water. And all you need to satisfy that humble thirst is a Supplex Garden Hose. Makes watering real easy – fun besides. Supplex is light and clean, handles easily, coils up and tucks away 1-2-3.

Supplex Hose with tire-cord-reinforcement won't burst ... even when shut off at the nozzle under full water pressure and left for days in the hot sun. Look for Supplex Hose (patented triple tube *sprinklers*, too). All-vinyl plastic – guaranteed up to 10 years.

SUPPLEX COMPANY, Garwood, N. J
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GARDEN HOSE AND SPRINKLERS

ANCHOR FENCE Provides

lifetime beauty and protection

Anchor Fence gives you added peace of mind because it safeguards children, pets and property from traffic and intruders.

At the same time, Anchor Fence adds a new dimension to your enjoyment of outdoor living. Your home and grounds grow in beauty because an Anchor Fence makes a wonderful background for your planting. It's an ideal framework for shrubs and vines. In addition, Anchor requires no annual maintenance because it's zinc-coated *after* weaving, not *before*.

Increase the fun you enjoy outdoors.

For a free estimate on Anchor Fence, call the Anchor office nearest you or write: ANCHOR FENCE, 7706 Eastern Avenue, Baltimore 24, Maryland.

Anchor Fence

Division of ANCHOR POST PRODUCTS, Inc.

Plants in: Baltimore, Md.; Houston, Texas; and Whittier, Cal. Sold direct from Factory Branches and Warehouses in all principal cities

The big objection to plastic hose has been that it gets stiff, stubborn, and hard to handle in cold weather. Now Swanseal, made of new Swan LOW TEMPERATURE plastic remains soft, flexible, pliable, easy to coil and uncoil even when the temperature falls to 50 degrees! You have to try it to appreciate what a difference LOW TEMPERATURE plastic makes!

A full ½-inch inside diameter 50-foot coil only **$5.95**

A full ⅝-inch inside diameter 50-foot coil only **$7.95**

LOOK FOR THIS SWAN DISPLAY . . .

Your local hardware merchant, department store, lumber yard, or garden supply dealer has a complete line of Swan plastic and reinforced rubber garden hose. They'll be glad to help you select the correct size, type and color Swan Hose best suited to your needs. See them today!

SWAN RUBBER COMPANY • BUCYRUS, OHIO

World's Largest Manufacturer of Garden Hose

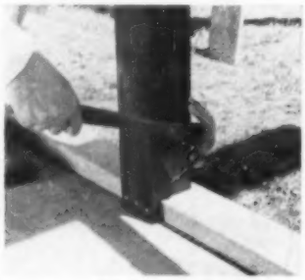
A summer house

Continued from preceding page

From floor to roof, summer house uses easy, practical building techniques

To form "drip cap" and better support for 4x4 posts, screen panel sills are off-set ⅝ of an inch.

Storage unit sills fasten flush with edge of slab. This way, the grooved plywood siding laps over edge so storage unit and screen panels will be in alignment.



Posts are rabbeted and toenailed to sills; bottoms are counterbored to accept sill bolts.

At top, posts and beams go together in butt joints, toenailed.

All structural members were prestained with a wood preservative-stain before erection was started.

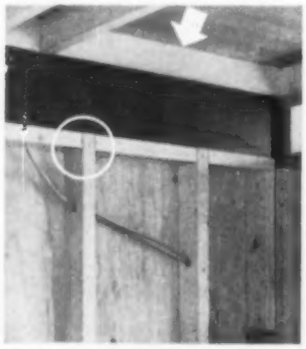
Purlins tie posts and beams together and serve as rafters for 1-inch decking material—which supports the built-up tar and gravel roof.

The 2x4 purlins are "double-spaced" (see drawing) for strength; they also serve as framing for recessed lights inside the screen house.

Trim-screen panel supports (2x4s) butt-joint against purlins, floor, and posts. For lighting, members are dadoed to accept conduit.

Glass-fiber screening staples to these supports on outside; the ½x2-inch trim stock finishes the screen panels off in light, attractive frames.

Photographs: Stanley



Regular "stud wall" technique is used to frame storage unit.

Studs are nailed to the beams and blocking which is sandwiched between them (circle); 2x4 inserts between roof decking, posts, beams close space left by purlins (arrow). Storage units cover most of wall.

Lighting fixtures fasten to faces of purlins where they're "doubled."

Thin translucent plastic sheeting hides units; it slides in saw-kerf-wide dadoes cut in 1x1s.

To change tubes, the plastic is simply slipped out of kerfs.

More on next page

before you buy a power mower, see

MOW-MASTER

with stand-up starting

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EDENWALD GARDENS, Dept. B, Vincennes, Ind.

A summer house

A precrimped galvanized sheet drip cap fits over top edges of fascia; it is mitered at corners and nailed to roof decking. The small, blocked-out trim strip hides it.

Grooved plywood siding was used in place of two screen panels to provide strength, privacy areas.

The college jam-up

Continued from page 46

But help from industry, foundations, trusts, and government is not enough to bankroll the budget required to put our colleges on a permanent solvent basis, so that they can expand, keep pace with the advance of knowledge, and raise the professors' purchasing power. And many educators believe that we are overlooking the most important university underwriter of all—the college graduate himself. In the last analysis, he is the individual who benefits the most from a diploma.

Suggests New York University's Peter F. Drucker: "Take the case of a college graduate whose education has cost $6,000 to $12,000, paid partly by him and partly by the school. As a result of this investment, however, his earning power has been increased by 50 percent—or by at least $100,000 over his earning life. Is it totally unrealistic to expect of him that he split this increase nine to one with the school—that is, to return, over a period of 40 years, $10,000 to higher education?"

Recently, in desperate need of $82,500,000 for expansion, Dr. Nathan M. Pusey, president of Harvard University, announced that, among other sources, his school will solicit 45,000 Harvard graduates for funds. Said Doctor Pusey: "Universities, if successful, must be beggars, and the better work they do the more they must beg. The plea I now make for Harvard College becomes by extension a plea for all higher education. All colleges and universities that are alive are in need."

If Doctor Pusey's emergency appeal to Harvard's graduates proves fruitful, educators believe it may stimulate millions of other recipients of a college diploma to do likewise for their alma maters. Four million angels a year may eventually be the crash solution which will prevent the educational explosion from becoming a national blockbuster.

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Is a smooth, green, weedfree lawn—without pulling or grubbing—worth $1 to you? Weedone can give it to you. Weedone's special formula gives a fast, sure, permanent kill. Weeds stay killed and grass grows strong and healthy. Be sure you get Weedone, the miracle weed killer—now available in both liquid and dry forms.

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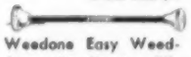

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New dry form for use in a spreader — 5-lb. bag $1.98

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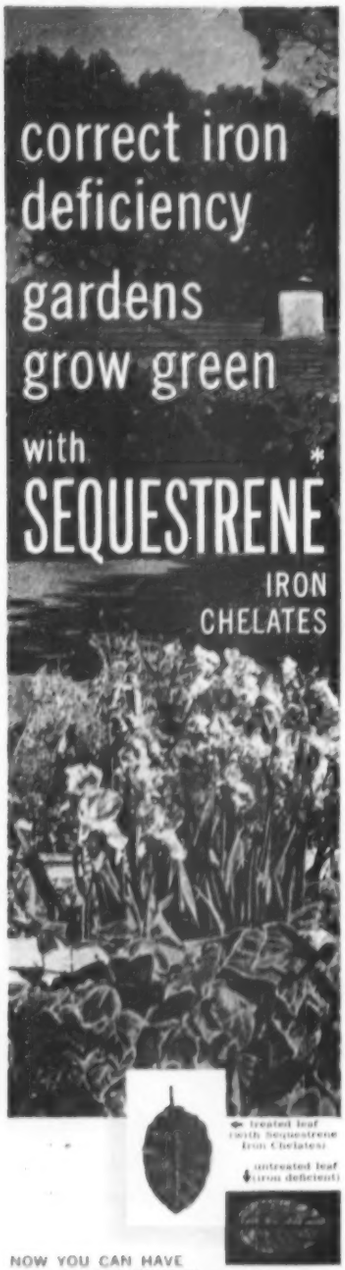

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The diary of a

Plain dirt gardener®

By Harry R. O'Brien

Outside Pasadena, at an All-America Flower trial, I took pictures of the current entries that were in bloom.

June 1 When I peered out the motel window this morning, the first thing I saw was snow—off in the distance, gleaming white on top of mountains. Under the window, though, outside, peonies were in bloom. It was almost freezing.

This was in Montpelier, down in southeastern Idaho, where Maggie and I spent the night. We are on our way westward on a long vacation trip—out spending our substance in riotous travel.

June 2 Across the Snake River, into Oregon. At Vail, we went north on what turned out to be a thrilling ride. In about 60 miles we were into the mountains, with canyons and passes, up over the Blue Mountains, down in a valley along the John Day River.

June 3 Maggie screamed. It was this way. As we were driving along in the mountains this morning, we met a herd of about 500 Hereford cows. They were being driven along the road by cowboys and cowgirls—just like in the movies—to some upland summer range.

We had to stop and wait until the cows were driven on by. One old cow stuck its head in the open window, right under Maggie's nose. She screamed. Shooed it out. Hurriedly put up the window.

Drove into a terrible rainstorm, so we spent the night at Bend.

June 4 There were clouds as we drove north from Bend, so we couldn't see the beautiful, snow-covered peaks of the Cascades off to the west. We drove toward Mount Hood to the northwest but there were clouds here, too. We drove up the side of Mount Hood, as we followed the highway.

Into Portland and to the big hotel where we had stayed years ago, when the boys were small, on our first visit. We'll settle down here for several days to rest, see the city's Rose Show, and take in the great annual Rose Festival.

June 6 Out to visit the Portland International Test Rose Garden today, one of the most outstanding anywhere in the world. One of the official All-America Rose Selections trials is here. This I looked over and made some pictures of some of the entries.

June 10 Today we packed up and said farewell to Portland and its roses. We've been seeing the various events of the famous Portland Rose Festival the past few days. We've visited with a number of our rose friends and have seen their rose gardens.

We stood on a street corner and watched the big Festival parade, along with 375,000 others lined up along the four miles—plus 'steen million folks who saw it on TV. I shot pictures of the activities until I ran out of film.

It was raining as we drove out of Portland, south. Came night, we stopped at a motel in Roseburg, amid the mountains.

June 13 One of the centers of commercial rose growing in California is the Livermore Valley, out to the southeast from Oakland. We stopped here at the Western office of the Jackson & Perkins Company for a visit with the folks, and to look around.

Then we drove over a few miles to the research laboratory of Dr. Walter E. Lammerts. Dr. Lammerts is the originator of Queen Elizabeth, Chrysler Imperial, and Golden Showers—the 1957 All-America—to name a few.

June 14 We drove out east from San Jose to the rose nursery of Clyde Stocking.

One of the official All-America Rose Selections trials is here and Clyde is a judge. While Maggie visited with Mrs. Stocking, I went over the rose trials and made some pictures.

As we went on south, just beyond Salinas we stopped at the research station of the Ferry-Morse seed firm. Here is where many new flowers have been developed, among them the famous Cuthbertson strain of sweetpeas.

June 15 To Santa Maria last night. Within a radius of 50 miles or so from here is one of the major centers of flower-seed production in the world.

At the ranch of the Burpee Company, Walter Manfrina, the manager, and Gene Canter, the plant breeder, showed us around. They pointed out some newer varieties, and others still under development. Of most interest were the new petunias, especially double white and hybrid Crown Jewels.

June 18 Received a letter from Janet this later afternoon, just 20 hours after it had been mailed back home. She had been up to our house for more asparagus. Had picked over our strawberry bed. She had brought home a dozen rose blooms, too.

June 20 Out eastward from Pasadena today, we visited two famous flower centers. In the morning, we stopped in at the main office of Bodgers, one of the big wholesale seed firms. Here we saw, at their home, Red Satin, the 1957 All-America petunia, just coming in bloom, and Carnival, the new F-2 Hybrid petunia. There is an All-America Flower trial here and I took pictures of all the current entries in bloom.

Then eastward on one of those new freeways, and came to the Armstrong Nursery. Here is where so many of our good newer roses have originated—from Charlotte Armstrong, in 1941, to Circus, in 1956.

June 21 Came about noon today to Hemet, home of the wholesale rose-growing firm of Howard's. Here, in an upland valley at 1,600 feet altitude, roses are grown by the million.

Here is where Tiffany and Lilibet—the two All-America winners—were originated. We also saw the Texan, the new big red rose of 1957 introduction. From here, we drove back north to U. S. 60 and 70, and headed downhill toward the desert and home. We spent the night at Indio, 40 feet below sea level.

June 25 Drove all day, in temperature up about 100, from El Paso, eastward and came toward evening to San Angelo, deep in the heart of Texas. At night, stopped at a motor court that was air conditioned. Sure felt good!

June 27 On to Tyler, center of the large rose-growing area of eastern Texas. Here we saw the Tyler Municipal Rose Garden, which has about 23,000 rose bushes.

June 29 It was our intention to get back home tonight, but traffic

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REGALE LILY

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Wayside Gardens

on U. S. 40 was heavy. Darkness came—and I had driven more than 400 miles. So, 65 miles from home, I gave up and we turned into a big motor court. Slept like a tired old log all night.

June 30 Up early and on our way. First thing you know, we were in our own driveway, home from our travels of some 7,500 long miles.

It was so early, there was David, sitting at the kitchen table, eating his breakfast. He jumped up and came running out to greet us.

Later on, while Maggie looked around the house, I took a quick look outside. David has kept the lawn mowed. Practically no blackspot on the roses. Lots of other bloom to be seen. Still a few ripe strawberries. But oh!—the weeds.

Note: American Hemerocallis Society holds its annual convention at Tulsa, Oklahoma, June 19-22.

Spring meeting of American Rose Society will be held June 20-22 at Milwaukee, Wisconsin.

The five iris for 1957, selected by the Association of Iris Growers of America for their excellent growth habits, known quality, and popularity, are: Argus Pheasant, a rich russet brown; Melody Lane, glistening golden apricot; Pinnacle, white and primrose yellow; Pierre Menard, large rich blue; and Pink Sensation, popular flamingo pink.

Personal help

Continued from page 183

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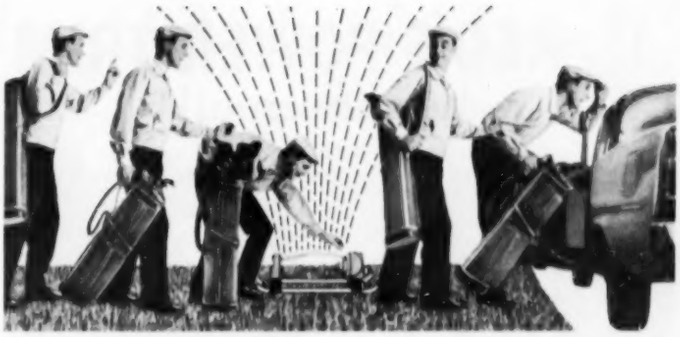

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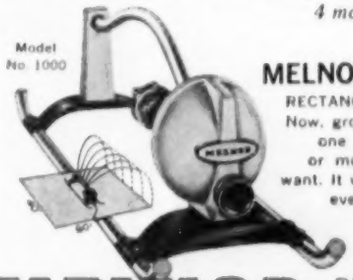

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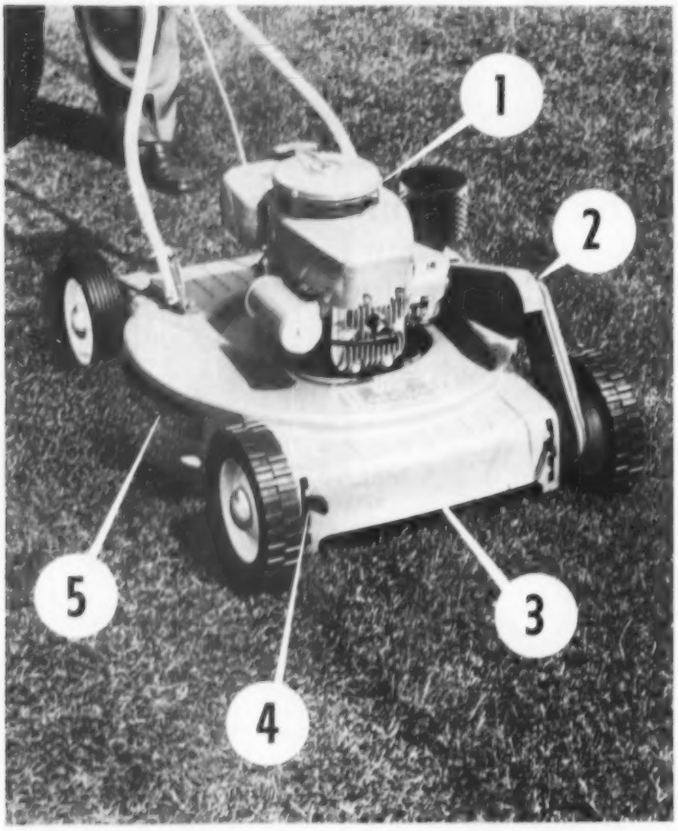

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2. It's self-propelled by exclusive *Reo-Matic Front Wheel Drive* . . . the life lubricated chain drive that gives positive power . . . can't slip!

3. Reo's exclusive *Forced Draft Suction System* creates a surging updraft, stands each spear of grass upright for a smooth, even cut.

4. Reo's exclusive *Finger-Touch Height Adjustment* lets you change cutting height in seconds *without* tools, *without* removing wheels.

5. Reo's exclusive *Triple Duty Door* adjusts 3 ways to cut high weeds, grass or leaves. *No Raking!* Clippings sift into lawn.

1957 Reo Power-Trim (above) with famous One-Knob Control, two speeds forward, comes in 21 or 18-inch widths. Power Starter and Power Edger are optional.

De Luxe Hand Propelled Rotaries, with same basic performance features, cost less. Your nearby Reo dealer also has a complete line of high quality Reo Reel Type Mowers. See him today!

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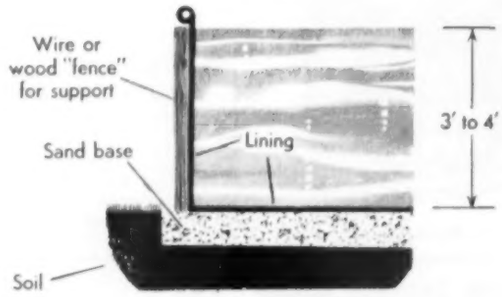
Shopping for a

By Tom Riley

HERE'S A QUICK RUNDOWN on four common types of commercially built pools that are, or soon will be, available in your locality. Costs range from $100 to $5,000—depending on the type of "liner" and equipment you want installed. With the exception of concrete models—similar to those built for public use—the pools described here are new in type and construction. Due to mass production and easy assembly, all have been lowered greatly in price. By doing some of the work yourself—layout, digging, painting, and so on—costs dip even more



Plastic pools are oversize, heavy-duty children's wading pools that are inflated with a vacuum cleaner and filled with a garden hose.

Many sell for about $100 and are small—10 to 12 feet in diameter, $1\frac{1}{2}$ to 2 feet in depth.

They're easily portable and involve no installation cost. Another advantage: You can keep them clean without special equipment by simply draining water out on the lawn, scrubbing the liner, refilling.

Adults can swim in the 16- to 25-foot diameter models, which are 3 to 4 feet deep. These (the pools alone) sell for $250 to $400.

They are usually laid on the ground over a smooth base of sand, and these larger models come with a sturdy steel or wood reinforcing that goes around the outside to stiffen the high sides.

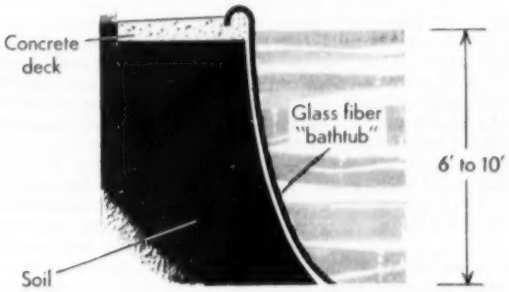
These pools hold a considerable amount of water—up to 10,000 gallons. Adding chlorine to the water and pumping it through a filter is preferable; it utilizes the same water for longer periods of time—as in a standard pool.

Equipped with a filter, the larger types cost from $600 to $800 which includes installation on a sand base, a ladder for climbing in and out of the pool, a filter with an electric pump, and necessary connections for cleaning the sides and bottom.

(There are plastic pools similar in price and construction to the "tar paper and pitch" pool we designed and described last month. Basically, they're nothing more than "built-up" roofs laid in the ground instead of on a house top.)

Costs on any plastic pool can be reduced greatly, if you are willing to take over some of the installation yourself. This would involve laying the sand base, leveling it, etc. However, sizable excavation is best left to "pros."

swimming pool?



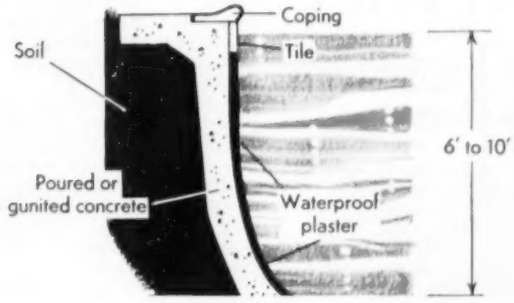
Prefabricated pools, one of the newest ideas, can be delivered to your home in two or three large preformed sections of glass fiber (polyester resin and glass fiber) to be fitted to an excavation.

These sections are simply joined together in the excavated hole and connected to the piping.

Prices range from $2,700 for the small pool, installed; to $3,600 for the largest, installed. Sizes run from 30x15x5 feet deep to 35x15x7 feet deep. Dealers hope for reduction in prices—perhaps down to $1,000, installed, when the pools are mass produced.

This price, then, will include low installation cost for a smooth, easy-to-clean surface.

Boosters claim these pools are the answer to back-yard swimming facilities. However, they are not readily available in some localities and haven't yet passed the tests of time and children. What you could do to lower costs, probably could be worked out with a contractor.



Concrete pools are still considered a "lifetime" investment. And, though they run higher in cost, most pools built today are poured or gunited concrete.

Any shape can be obtained—rectangular, triangular, free form, and so on. The concrete is always reinforced with steel. It can be sprayed on with a gunite machine (where available), giving the pool well-rounded corners that are easy to clean with a pool vacuum.

It can be form poured (the same as placing a basement), but this method is sometimes questioned because it produces sharp corners.

It can be wet packed. Here, the pool is given a saucer shape, and the concrete simply is placed into the bottom and smoothed over reinforcing wire.

As it begins to set, more concrete is packed and troweled over the wire of the curved sides and finished off with concrete packed behind a leveled board at the top.

Any of these methods gives a strong, permanent pool. The concrete sides and bottom can be plastered or painted.

A calcareous-base pool plaster gives a smooth, lifetime finish for pools that are kept filled and clean the year around. The best finish costs from $300 to $500 and must be applied by an expert.

A pool left full of leaves in the winter will stain. On such, a vinyl- or rubber-base pool paint is best.

The cheapest finish, cement-base paint, will last from one to two years or so. If you have a standard concrete pool installed, you probably will pay $3,000 for a 14x28x6-foot deep pool. A 16x32 foot pool, 8 to 9 feet deep, runs $4,000 or so. A 20x40 foot pool of similar depth costs more than $5,000.

The pool will be complete—filter, diving board, ladder, and so on.

More on next page

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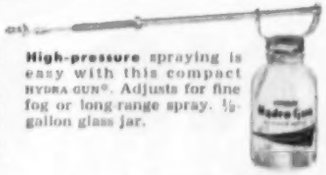

High-pressure spraying is easy with this compact HYDRA GUN*. Adjusts for fine fog or long range spray. ½-gallon glass jar.

FAVORITE* is the name and the fact of this 2-gallon garden sprayer. Compression type, pumps easily, quickly. Sprays fog-to-coarse spray, too.

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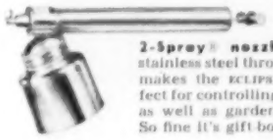
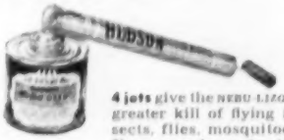


2-Spray* **nozzle** and stainless steel throughout makes the ECLIPSE* perfect for controlling moths as well as garden pests. So fine it's gift-boxed!



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For the things you prize especially, your roses, other plants, you may wish to use one of the specialized sprays or dusts. Since weed killers are harmful to garden plants, it's best to use a separate sprayer for weed control.

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Moral crisis

Continued from page 172

sent for most of them. The girls were asked whether the sexual activity they engaged in was "pleasurable" to them. According to the advocates of sex freedom one would expect an enthusiastic affirmative. But the clinical facts were these: only one-third of the girls reported that the experience gave them "some pleasure"; another third described their reaction as "mixed feelings, including doubt, guilt, and shame"; the other third were equally divided between girls who were "indifferent" to the experience and others who described it as "definitely unpleasant."

The clinic report put it: "These individuals did not engage in casual sexual relations to achieve satisfaction, but rather used sexual expression in an unsuccessful attempt to solve other problems."

Hence the two-word definition: "unhappiness disease." And the comment of one of the clinic staff: "As the girls became happier, they ceased being promiscuous."

Repeated studies have confirmed the San Francisco findings, as do the daily experiences of psychiatrists in treating individuals with sex problems. Illicit sex experience is not a goal in itself. It is a symptom of unhappiness, in which the most frequent underlying, and often hidden, motives are:

1. *The need for acceptance.* An individual feels insufficiently loved, or admired, by others—or insufficiently attractive to others—and seeks reinforcement of his ego in being "sexually accepted."

2. *Rebellion.* Sex activity is seen as a form of "getting even"—sometimes for parental harshness, or, in married individuals, as a way of striking back at an unloving or rejecting mate.

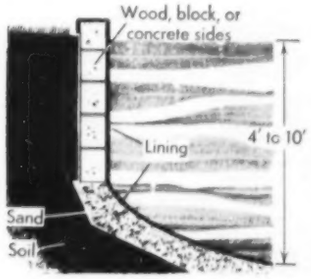
3. *Lack of confidence.* This may be a male's lack of confidence in his maleness (which he must prove to himself over and over again through "sex conquest") or a woman's doubts that her physical response is complete and "normal."

Does sex freedom heal these sores of unhappiness? If it did there might, psychologically at least, be a case for it; it would be therapy. But during the very era when sex freedom has been hailed as a way out of emotional turmoil—a relief from the "frustration" of morality—individuals who have tried it have figured prominently in the swelling psychiatric case load.

They have craved acceptance. What they have found is the remorseful realization that in illicit sex relations they have been "used," not accepted. Perhaps a psychiatrist helps them realize that true acceptance comes first in a meaningful interpersonal relationship, in love, in marriage—then in a sex relationship which does honor, not dishonor, to the partner.

Swimming pool

Begins on page 216



Plastic-lined pools include everything—from the low-cost, "standard" sunken model to the most elegant.

They vary from about $800 to $4,000 or more in price, each complete with filter and accessories. The heavy-gauge vinyl plastic is just the outer skin of water seal.

A wide range of pool sizes is one reason for the variation in price, but another is in the material that is used underneath the plastic for the body or shell.

The least expensive type has sides of wood planking or moisture-proof plywood, erected like concrete forms. This shell may be in a deep excavation to bring the pool level with the ground, or it may be sunk just halfway (least cost) with the excavated earth backfilled around the outside for slope.

The heavy plastic rests on a layer of tamped sand on the bottom, extends up the wood sides and completely over the top of the wood to give a smooth edge or coping.

You can have an 8x16x4-foot deep pool of this type installed for about $800; for about $1,500, a 13x28 foot pool, sloping from three to five feet deep.

A more permanent plastic-lined pool has a similar tamped-sand base, but reinforced concrete sides that are topped with a standard concrete-pool coping. Installation of a pool like this—12x27x6½ feet deep—is priced at $1,900. A 16x32x8½-foot deep pool is $2,500; a 20x40x9½-foot deep pool, $3,500.

Still another plastic-lined pool construction uses mortared concrete blocks on the sides and across the bottom. Here the vinyl plastic is the lining or "finish" coat.

All of these pools use standard plumbing fittings on waterlines, filter systems, etc. Manufacturers usually guarantee the lining against normal wear for five years.

Heating units. They cost money, but increase use of the pool in the spring and fall. Costs run $800 for larger pools; $500 for smaller ones. Fuel bills add $15 to $40 to monthly operation costs.

Filters. It pays to buy one to save on cost of replacing water. Prices vary by models. An automatic skimmer for debris also is a wise investment. It costs about $20 to $30, depending on size, and so forth.

Safety. With children around, a fence or pool warning system is a good investment. Fences vary in cost; warning systems run $50-$100 or so depending on type.

They have rebelled. But whom have they hurt? As they gain insight and learn the psychological mechanism of *sado-masochism*, they see that sex rebellion hurts not only the harsh parent, the rejecting mate, or society at large—but themselves as well. They are the *sadist* in inflicting pain on others, the *masochist* in inflicting pain on themselves. Sex dereliction will not make the parent less harsh, the mate more loving. In effective therapy, such individuals learn the art of constructive rebellion: making the situation better, not making it worse.

They have sought confidence. For the male it may take hours of patient counseling to make him see that true maleness is developed in the inner personality; it has nothing to do with sexual "conquest." Over a hundred years ago, Dr. Jules Guyot compared the promiscuous male to "the wretched fiddler who demands another violin, hoping that a new instrument will yield the melody he knows not how to play." And the female, in psychiatric therapy, frequently discovers that her own emotional attitudes toward sex are the primary cause of incomplete responses. An illicit relationship, where emotional attitudes are further distorted by guilt and shame, can only make matters worse.

Thus, far from being a way out of problems, sex freedom has simply sunk unhappy individuals deeper into the mire.

Even for those without complex problems, the era of sex freedom flaunted the tantalizing proposition, "Maybe you're missing something." In everything from screaming movie billboards to whispering tables of boudoir statistics, the ancient temptation that the forbidden fruit tastes the sweetest has been drummed in: "Perhaps in your smug little moralistic life, in your neat little monogamous marriage, something very thrilling and exciting is passing you by."

What about it?

From a psychiatric standpoint, Dr. Abraham N. Franzblau, of New York, comments, "The assumption that the illicit is better and more satisfying than the licit is a characteristic of immaturity. It is given circulation only by those who have never known the the joys of even a moderately happy marital relationship.

"Don Juans and nymphomaniacs (and their close cousins, the promiscuous and the unfaithful) do not flit from flower to flower because the gratifications of such sexual hyperactivity are so ecstatically great. They do so, quite the contrary, because of their painful inability to achieve genuine gratification (despite all the semblances and all their boasting) in their shallow sexual experience. This drives them on inexorably to the next experience, hoping each time that the consuming fire which burns so relentlessly within them will this time be quenched."

Escape from reality, although tempting, is no more successful through sex than through alcohol or narcotics. It often leads, too, down the same dizzy spiral to slavish addiction.

While disease is a frequent byproduct of sex addiction, it is not the only one. Frustration, oddly enough, is another. Oddly, because frustration was one human misery which the sex emancipators were going to banish forever.

The era of sex freedom brought with it what the late Professor Frank W. Hoffer, of the University of Virginia, called "the marketing orientation of sex." Instead of an expression of love within the sacred bond of marriage, sex was seen as a commodity. It had value and could be traded. Today our social agencies and police departments are all too familiar with young girls who hang about the night-club stems and the cabaret corners ready to trade intimacies for a free-spending night on the town, or for some glittering trinket picked up in a jewelry auction.

The "marketing orientation of sex" has confused many young people, even many in higher social and economic strata with fine home and family environments. Seeing sex "merchandised" on the covers of paper-bound books, in amusement ads, in scandal magazines, it becomes difficult to believe parents when they speak of the sex relationship as sacred or love as an ideal. There is the understandable tendency to regard parents as old-fashioned or even unknowing. As one teen-ager put it, "What do my parents know about life—why they've been *married* for 20 years!"

The era of sex freedom has left parents with a challenge to reassert their knowledge of life. A spate of pseudo science has flooded the field of human values and left behind it a morass of moral mud. Parents who believe in such basic, timeless standards as chastity, monogamy, fidelity have been bogged down, understandably. But after a decade the sun is returning, drying up the mess, and parents have firm ground to stand on.

What parent, attempting to live a good life and prepare his children for a good life, doesn't recoil at sexual distortion? Yet we have come through a period when homosexuality has, in some quarters, been virtually equated with heterosexuality as just another form of human adjustment.

Sophisticates of the sex revolution have not only asked that homosexuality be understood; they have asked that it be accepted. We have, indeed, tried to understand it. Scores of illuminating studies have been made. But the result is ironic: the more we understand homosexuality, the less it can be tolerated.

The more we learn, the greater our appreciation of the insights of humanity's first lesson on the sub-

[*Turn to next page*

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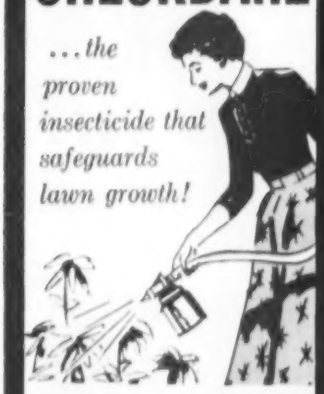

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The geodesic dome

Continued from page 201

has been a tremendous growth in the building of geodesic domes.

May 1953 brought to completion the first large-scale geodesic structure—the capping of the Ford Motor Company rotunda (because of the dome's lightness, it was the only covering the building could support). Since, in a rapid succession of events, have come domes for the Marine Corps (termed the "first major improvement in mobile military shelter in the last 2,600 years"), the Air Corps' arctic defense early radar warning system, as well as six new Kabul-type structures for foreign trade fairs and United States foreign information centers. These domes will be raised at Casablanca, Morrocco; Barcelona, Spain; Poznan, Poland; Madras, India; Rangoon, Burma; and Surabaya, Java—all before the first of June.

In addition, the Kabul dome itself was shown at the trade fair at Bangkok in December 1956 and is slated for a showing this year in Tokyo. Another model of it was erected in St. Louis last year.

Within recent months, Fuller has witnessed the erection of the largest geodesic dome built to date—a 145-foot-diameter recreation center in Hawaii, constructed entirely of lightweight aluminum, 1/16-inch thick!

Our South Pole explorers took with them last year a number of domes. Reports from the Antarctic tell of tremendous success using them as permanent-type shelter for personnel and highly sensitive electronic equipment.

Still, to the comprehensive designer who shapes his thoughts in comprehensive terms, these accomplishments are but infant steps toward tomorrow's larger goal.

Moral crisis

Continued from preceding page

ject: the Holy Bible. Within its pages homosexuality is described as an "abomination." Humanity is warned to recoil from it, to be repelled, and to shun it. Was this simply mortar for a moral dungeon? Or was it for humanity's own protection?

Dr. Edmund Bergler, New York psychoanalyst, recently reported on extensive clinical treatment of homosexuals. His conclusions were a rude shock to the sex-freedom advocates. He denied that homosexuality is a normal state of adjustment for some people (the oft-quoted theory of the third or "intermediate" sex). This notion, said Dr. Bergler, is simply "a useful argument in the homosexuals' advocacy of their perversion." What he found instead was a pattern of personality traits, largely psychopathic, which expressed themselves in homosexual behavior. Far from being a "biologically determined destiny," Dr. Bergler concluded that homosexuality is a personality disease.

It is a disease which can be spread. As one drug addict creates another, so does the homosexual. Through proselytization he can infect the innocent.

The assault upon morals in the great freeing-up experiment since World War II has not halted at the gates of marriage. Marriage itself has been seen by the liberators as a moralistic convention much too rigid for modern times. The notion of man and wife remaining loyal and in love until death do them part seemed a dread constraint and the fact that they promised to do so at the altar was nothing more than vestigal folklore. The Bible, in inspiring man and wife to become "one flesh," was, in the eyes of these liberators, wrong again.

What prize have they won for us?

It has now become a standard statistic that we can expect one-fourth as many divorces each year as there are marriages. It is the prediction of experts that of the marriages solemnized this year, one-third will end in divorce within 15 years. As a nation we are a blue-ribbon winner: the United States leads all Europe and the Americas in divorce rate (three times that of France, nearly four times that of England, six times that of Canada, eight times that of Mexico).

It isn't that our marriages are less happy. It is that our efforts to make marriage work have been slackened, vitiated by a philosophy of quitting. As Anthropologist Margaret Mead puts it, "The most serious thing that is happening in the United States is that people enter marriage now with the idea that it is terminable."

Why shouldn't they have this idea? It has been the virtual theme song of the era of sex freedom.

At the celebrity-frequented Colony Restaurant in New York the era has not been without its complications for the host, Gene Cavallero. He explained to a newspaper columnist, "A very ticklish problem is the seating of celebrities who from time to time have changed their legal mates. Usually they marry in the same circle and we try to separate them so that the presence of an ex-husband or wife won't disturb their digestion.

"One night recently there were five couples represented—at different tables, fortunately. I got out my adding machine and came up with the statistic that 27 marriages were represented among the five couples."

Monogamy, in celebrity circles, has given way to what Marriage Counselor Lester Dearborn, of Boston, calls "progressive monogamy." This is a way of having several mates, but only one at a time. Dearborn, who is President of the American Association of Marriage Counselors, commented, "These are just 'affairs' made legal to avoid bad publicity and to give a sop to conscience."

From celebrity circles the idea of casual divorce has permeated to quiet citizens who live in family neighborhoods and never make the

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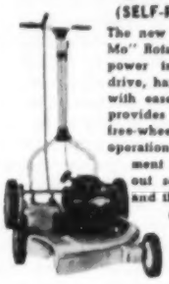

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front pages. Divorce has been held out to them, not as a symbol of defeat and the death of marriage, but as a way to solve problems and win a new life.

So we have experimented. What have we found?

We have found, in census studies, that remarriages are 50 percent less stable than first marriages. The nation's dean of statisticians, Louis I. Dublin, has reported, "The frequency of divorce rises substantially with each successive marriage." And it is now axiomatic to psychiatrists that troubled people who flee to divorce take their troubles with them—right into the next marriage.

At the Divorcees Anonymous organization in Chicago, I talked with a number of women who had heeded the blandishments of the freedom peddlers; they had thrown off the old hat of moralistic marriage "made in Heaven" in favor of a pert new number made in the divorce court. Now most of them wish they could have another chance. The trouble, they've found, wasn't in the hat but in the heart.

Again, in free and easy divorce, the promises of the great liberation have proved empty.

The 12 years since World War II, with their heady philosophies of sex freedom, have not yielded true freedom, far from it. They have, instead, acquainted us with a new form of slavery: enslavement to neurosis, to maladjustment, and futility.

Where, then, is freedom found? Where it always has been; it has not strayed. True sexual realization—the human maximum in gratification of the flesh and the spirit, too—stems from the full, unfettered, and unashamed relationship of marriage: two individuals growing through loyalty and love into "one flesh."

And so we look around now. And we wonder about that moral structure which we saw dismantled stone by stone. Was it a dungeon? Or the house we live in?

And our children's house.

Next month, in the second of this series on "America's Moral Crisis," Howard Whitman writes the shocking story of "Youth and the 'Natural Urge,'" an article every parent should read.

Rail vacation travel

Continued from page 197

Other attractions:

Oakland Bay Bridge	Golden Gate Bridge
Aquatic Park	Alcatraz
Marina	Presidio
Sutro Heights	Treasure Island
Wells-Fargo Museum	Seal Rocks
	Fleishacker Zoo
	Yerba Buena Island

LOS ANGELES: Main attractions are Hollywood radio, television, and movie studios. It's best to obtain tickets to radio and TV shows in advance. Movie studios generally are closed to visitors. Maps for self-guided tours to homes of screen and TV personalities are available if you rent an auto. Round-trip cruises to Santa Catalina Island, 22 miles offshore, leave from Terminal Park. Within easy walking distance from Los Angeles Union Station is Olvera Street, authentic old Mexican marketplace with interesting shops and eating places. Operas and symphony concerts in Hollywood Bowl.

Other attractions:

Griffith Park	Grauman's Chinese Theater
Farmers Market	Southwest Museum
Exposition Park	Old Mission Church
Terminal Island Navy Base	Rainbow Pier
Disneyland	Marineland
County Museum	
Knott's Berry Farm	

Choice of return trips

From the West Coast you'll have an almost unlimited choice of return routes. Should you plan to return directly home from San Francisco, the Western Pacific, Denver and Rio Grande Western, Burlington, and Missouri Pacific Railroads offer a scenic trip via Salt Lake City, the Colorado Rockies, Moffat Tunnel and/or the Royal Gorge. Also from San Francisco the Southern Pacific, Union Pacific, and Milwaukee Roads operate a through service to Chicago by way of Reno, Ogden, and Omaha.

But for most families, Los Angeles will mark the starting point of their return journey. From here the Sante Fe line operates direct to Chicago via Williams, Arizona (gateway to the south rim of the Grand Canyon), and Gallup, New Mexico (heart of the Indian Country), Albuquerque, and Kansas City, with a free side trip included from Los Angeles to San Diego and return.

Also from Los Angeles, the Union Pacific and Milwaukee Roads combine their facilities via Las Vegas, Nevada (free side trip to Hoover Dam), Lund and Cedar City, Utah (gateway to Zion, Bryce Canyon, and the north rim of Grand Canyon National Parks), Salt Lake City, Cheyenne (free side trip to Denver and Colorado Springs), Omaha, and Chicago. Or, if you prefer the extreme southern route, the Southern Pacific and Rock Island Lines operate between Los Angeles and Chicago via Yuma, El Paso, and Kansas City, or by way of San Antonio, Houston, New Orleans.

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Model H

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Model D

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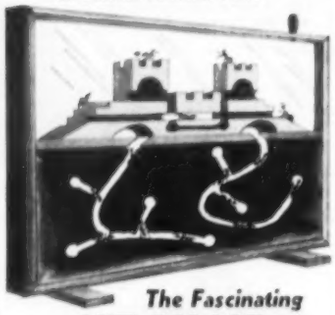

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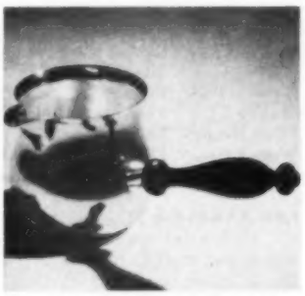
B. M. Lawrence Co., 244 California St., San Francisco 11, Calif.



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Make fishing fun for your child

Continued from page 146

To remove hook from bullhead (which usually swallows bait), grasp fish so horns on fins are held between fingers. Caution: *Never grab* a bullhead; ease hand around him.

Follow shank of hook down his mouth with underside of forefinger, work fingernail into angle of hook.

When the fingernail has engaged the hook, push down on the hook. It will then come free and fit around finger. Then simply withdraw finger.

Here, Paul Ahlers lifts finger out with hook safely around his nail. This prevents hook catching again as it is being withdrawn.

Let child clean the fish. Children enjoy participating in all departments of fishing. Here, Tom uses scaler on bluegill. Show them how and you'll be surprised how soon your children will learn to do their own jobs quickly and efficiently.

Cook and eat fish on the spot. There is no greater fun for children than eating their own fish. So take along simple equipment for a picnic, including an outdoor fish fry. Roll pieces of fish in flour, season, then drop in hot, deep fat. They will fry to a golden crisp.

STOP PAIN INSTANTLY
COMBAT INFECTION-PROMOTE HEALING
WITH ANTISEPTIC
Campho-Phenique
(PRONOUNCED CAM-FO-FIN-EEK)
WHEN USED ON MINOR BURNS, CUTS
SCRATCHES, ABRASIONS

Quick! Apply Campho-Phenique at once to minor burns from hot cooking utensils, hot water or steam . . . stops pain *instantly*, promotes rapid healing. The same thing happens when you use it on minor cuts, scratches and abrasions. Campho-Phenique is highly antiseptic. Wonderful for fever blisters, cold sores, gum boils; to relieve itching and to guard against infecting insect bites. Used on pimples, Campho-Phenique helps prevent their spread and re-infection.

THE PUMP TO GET IS A . . . Jacuzzi JET

Dependable—Nothing matches a Jacuzzi jet pump for trouble-free water service. For shallow or deep wells to 400 feet, only one moving part and it's above ground. No lubricating or frost-proofing needed. Automatic self-priming.

Extra pressure — Jacuzzi jet pumps assure better performance from automatic washers . . . better fire protection, too.

BE CHOOSEY . BUY JACUZZI!

Send for FREE booklet and name of nearest Jacuzzi dealer.

JACUZZI BROS. INC.
4100 Bayless Ave., St. Louis 23, Mo.
Send bulletins on your jet pumps.
Name
Address

GRAVELY
New EASE for Country Living!

NOW! 30 Tools

GRAVELY Gets It Done Faster! . . . Better!

New Steering Sulky, with Rotary Mower Attachment, provides the easiest, most efficient mowing ever!

With Gravely, you fit your jobs perfectly with a choice of 30 performance-proved attachments . . . Do every lawn and garden job *better, faster, easier!*

All-gear drive, power reverse, optional electric starter. Nation-wide sales and service . . . *Easy Payment Plan.*

Write today for FREE 24-page "Power vs Drudgery" Booklet.

GRAVELY TRACTORS, INC.
BOX 811 DUNBAR, W. VA.
FIELD-TESTED SINCE 1922

COMPLETE HOW-TO IN OUTDOOR COOKING with *Better Homes & Gardens* New BARBECUE BOOK. Only $2.50 ($2.95 in Canada) wherever books are sold or send check or money order to 5606 Meredith Building, Des Moines 3, Iowa.

FREE COLOR CATALOG
of American Finest Iris
EDEN ROAD IRIS GARDEN
P.O. BOX 117
WENATCHEE, WASHINGTON

Give a hoot about heat—
SEND COUPON!

Kewanee Boiler Division
Kewanee, Illinois
Rush 24 page book "Wonderful Winters" — FREE!
Name
Street
City State

KEWANEE HOT WATER HEAT

Color-illustrated words-to-the-wise on even temperatures . . . rapid response . . . perfect control . . . clean, silent heating.

AMERICAN-Standard
KEWANEE BOILER DIVISION

THE MAN NEXT DOOR®

All the wives around here began mowing their own lawns this spring—until Elaine Cowan saw a little green snake and hired Billy Jones to mow hers. Now all the kids in our block have jobs mowing lawns—except Bill. But he's doing O.K. renting out a little green snake.

* * *

"Two heads are better than one," said Fred Randolph, resting on his spade. "My Katie decided we'd have a garden. But making it out here behind the garage where she can't watch me was my own idea."

* * *

Wreck in our yard today. Little Jerry Tinker hitched his dog to a wagon, but wouldn't give our Judy a ride. She didn't let out a yell, as she usually does; just let out our cat.

* * *

Rosie Hillis's mother quick-cured her of saying, "Aw, Mom, weren't you ever young?" Got out that short skirt photo of herself, taken in the "flapper" era.

* * *

Uncle Dick, my favorite, sent Christine a gift certificate for our 18th anniversary. "Get whatever you want," he wrote. "But unless you can pick 'em better than you did 18 years ago, better let someone help you."

* * *

"A country club dance," said Bill Norman, eyeing the formal gowns floating across the floor, "is where a woman who hasn't a thing to wear, wears it."

It may interest you good neighbors to know that pretty Margie Wilson the high-school sophomore has broken up with the Parker boy. "I got a D-plus average last semester," she explained to the gang. (The honeysuckle screened them from me in my hammock.) "And Bill said he just couldn't go steady with a girl smarter than he is."

* * *

"Humph!" snorted Barter Bell, our bachelor neighbor, on learning young Ed Jennings is to be married. "A kid no sooner outgrows sticking out his tongue at girls than he sticks out his neck."

* * *

"Your son has recognizable talent," said Miss Blaine, his teacher, when I phoned to ask why he was late getting home from school. "He drew my picture on the board, and I recognized it."

* * *

"For him," remarked Lee Bayless, concerning one of this town's "self-made" men, "the ladder of success was the one his wife came down when they eloped."

* * *

There's nothing wrong with your back yard that can't be cured by—your neighbor's voice from his strawberry patch: "Hey! Bring a basket." . . . children vaulting unafraid into your yard, a compliment you wouldn't trade for a bronze plaque . . . your vibrant teenager, homeward bound with her pals, rushing to give you a robust kiss, for all the world to see . . . your baseball-mad replica bounding out the door and, as if you had nothing more important to do (which you don't), tossing you a glove . . . a summons from the kitchen: "Come and get it, before I come and get you."

Burton Hillis

Do you feel like eating anything?

Neighbor Bob Hannelly, Ph. D., has moved to Washington, D. C., but writes regularly. Our barbecue bunch voted his experiences be shared. Here's the letter that came last week . . .

Dear Burton: There's agitation in Washington for a shorter work-week. Some want a 35-hour week and some a four-day week.

My secretary thinks it's a plot to make her working day so short she won't have time for a coffee break. My brother says that no law on earth is going to make him work 35 hours a week. Our teen-age daughter is afraid that if fathers have three days off, they'll monopolize the telephone.

A shorter work-week is bound to create problems for the government. If there isn't time to refer a crisis to another agency, some bureau chiefs may try to solve it themselves. This keeps it from becoming a dilemma. But if it isn't a dilemma, some bureaus can't cross-index it. And if a problem can't be cross-indexed, the government isn't supposed to bother with it in the first place.

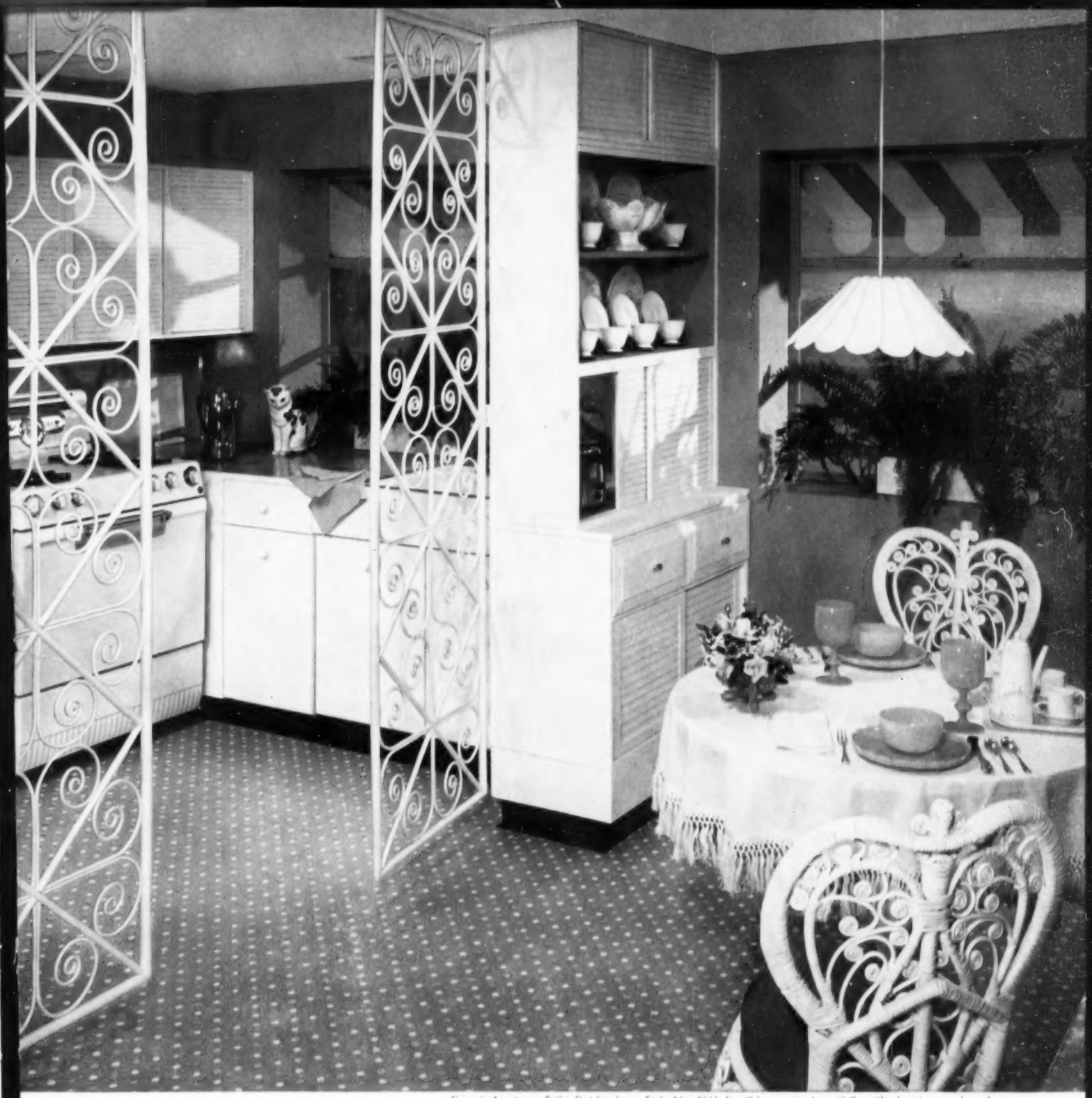
A friend on the council of economic advisors, is quite worried. He says that if people get a four-day week, they'll start buying such leisuretime items as tennis rackets, fishing rods, and clay modeling sets. This will force people to take part-time jobs to pay all the new bills, and pretty soon everybody will be working seven days a week—and blaming the administration.

Then all the wives will start writing their congressmen, demanding that something be done to get the American man out of the home. The cycle will be reversed, each party promising a longer work-week to get the women's vote.

The seven-day week is practically inevitable, Burton. And you can blame it all on women's suffrage.

Sincerely,
Bob Hannelly

All right, Loomis, you know perfectly well this is not a drive-in!



Floor is Armstrong Polka Dot Linoleum, Style No. 5161. It will harmonize beautifully with almost any color scheme.

SOMETHING PINK AND WHITE AND BLUE, SOMETHING GRAY AND . . .

something new! a floor with gay polka dots

Decorating a kitchen can be an easy job for any homemaker, experienced or not. And there's a simple way to be sure of successful results—by following a few rules. Rule One: Start with the floor. Two: Don't forget you may want to change colors later on, so choose a floor that will go with several color schemes—like this charming new polka dot design in Armstrong Linoleum. Rule Three: Pick up at least one of the floor's colors and use it lavishly around the room. Rule Four: Get your floor at a store that features the Armstrong brand. This way you'll be sure of top quality and a wide choice of designs and colors. There are over a hundred smart styles to choose from in Armstrong Linoleum. It's the modern fashion in floors for every room in today's fine homes.

SEND FOR FREE BOOK, "Decorating Ideas for Today's Living." You'll also receive a sketch plan of this kitchen-breakfast room, with list of furnishings. Just write Armstrong Cork Company, 5706 Elm Street, Lancaster, Pennsylvania.

Armstrong

THE MODERN FASHION IN

FLOORS

LINOLEUM • INLAID VINYL CORLON® • EXCELON® VINYL-ASBESTOS TILE • CUSTOM CORLON PLASTIC TILE • RUBBER TILE • CORK TILE • ASPHALT TILE • LINOTILE®

Homemaking is so much easier

with the Sunbeam® AUTOMATIC FRYPAN and SAUCEPAN and DEEP FRYER

perfect Controlled Heat Companions

HERE IS WHAT HAPPENS WITH UNCONTROLLED HEAT

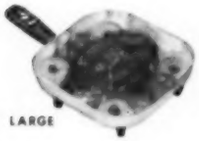
Eggs are seared around edges, leathery on the bottom, with uncooked white around the yolks.

Only the Sunbeam Automatic Electric Frypan gives you all the advantages for perfect cooking results the easy modern way. It Fries • Braises • Bakes • Stews • Pan broils • makes delicious pancakes, omelets, french toast and heats "frozen dinners." Controlled heat eliminates cooking failures. Results are always perfect. Its square shape gives you 20% more cooking area too.

Available in four sizes to meet the needs of every family: Standard, Medium, Large and Super. High dome vented aluminum covers or heat resistant glass covers are also available.

STANDARD

MEDIUM



LARGE

SUPER

SQUARE SHAPE COOKS MORE

A full ½ lb. of bacon will lie flat in the pan—cooks flat too because of Sunbeam's Controlled Heat. No curling or burning.

WATER SEALED ELEMENT

The entire pan can be immersed in water up to control panel for quick, easy washing.

The amazing New Sunbeam Electric Saucepan with Simmer-Safe Controlled Heat will open a whole new world of cooking magic. Seven utensils in one—completely replaces the ordinary saucepan, deep fryer, double boiler, dutch oven, corn popper, chafing dish and bun warmer. Has the most accurate thermostatic control ever developed for a utensil of this kind. Reaches Simmer-Safe temperatures quickly and maintains them with amazing accuracy. Makes all foods taste and look better. Available in 3 qt. and 5 qt. sizes. Complete with cover.

ROAST SHRINKAGE REDUCED UP TO 23%

Controlled Heat gives less meat shrinkage—protects natural meat juices from evaporation.

EASY-TO-WASH

New water-sealed element allows Saucepan to be immersed up to signal light for easy washing.

PERFECT FOR DEEP FRYING

Fry basket is available for preparing all your favorite deep-fried foods.

EXCLUSIVE

Simmer-Safe Controlled Heat

ELIMINATES POT WATCHING

No more boil overs like this. Food can be cooked and kept at just the right temperature.

DOUBLE WALL CONSTRUCTION

Double wall gives cool, economical cooking.

Water-sealed heating element for easy washing.

©S.C.

Be sure you get the original and genuine Sunbeam with accurate Controlled Heat.

Look for the MARK OF QUALITY Sunbeam Famous for Mixmaster, Coffeemaster, Lady Sunbeam Shavemaster, etc.